### INDEX OF SHEETS

- TITLE SHEET
- GENERAL PLAN & ELEVATION
- TYPICAL SECTION & DETAILS
- GENERAL NOTES & WALL DETAILS
- FASCIA PANEL DETAILS
- BORINGS AND DRIVE TESTS
- SEDIMENT AND EROSION CONTROL PLAN
- ADVANCE SIGNING PLAN
- TEMPORARY TRAFFIC CONTROL PLAN
- 10. CROSS SECTIONS

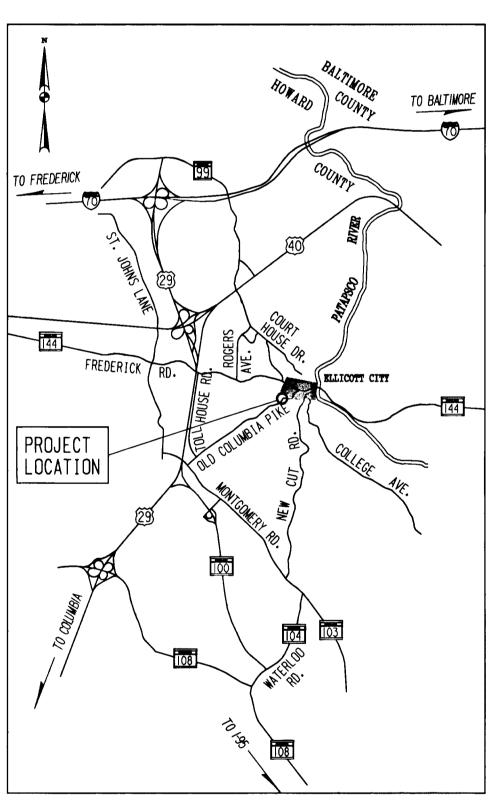
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

# OLD COLUMBIA PIKE RETAINING WALL REPLACEMENT

ELLICOTT CITY, MARYLAND

CAPITAL PROJECT B-3843 CONTRACT AA



PROJECT LOCATION MAP SCALE: 1" = 1 MILE



#### CERTIFICATION BY THE OWNER/DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THIS CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

NATURE OF OWN R/DEVELOPER

#### CERTIFICATION BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED

HOWARD S.C.D.

DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE U.S. NATURAL RESOURCES

CONSERVATION SERVICE

DATE

ALL UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND, O

CHIEF. BUREAU OF HIGHWAYS V DATE

BRUDIS & ASSOCIATES, INC. CONSULTING ENGINEERS

9220 RUMSEY ROAD; SUITE 210 COLUMBIA, MARYLAND 21045 (410)-884-3607



T.E.M. T.E.M. A.J.B. 6/19/97

BY NO.

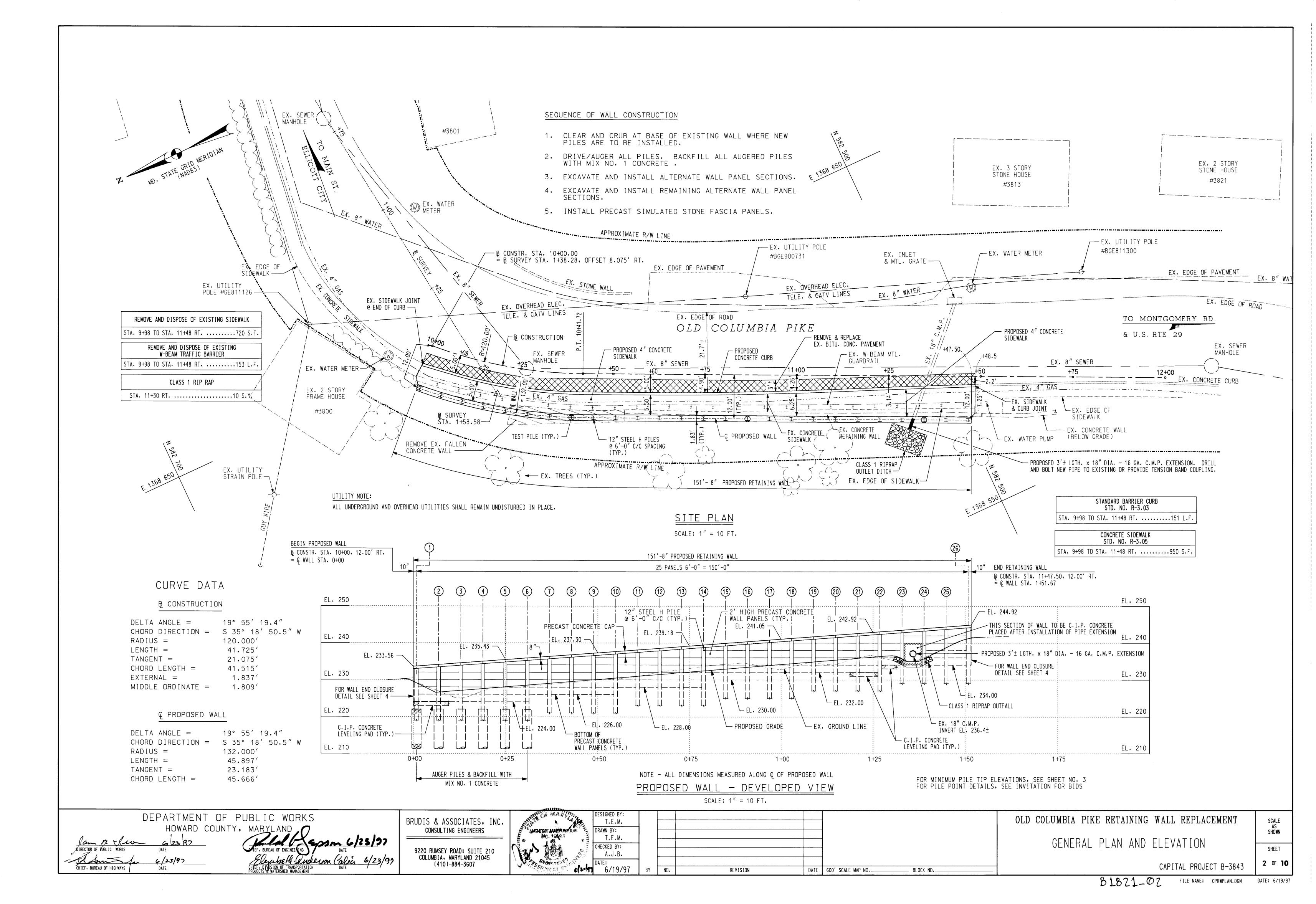
REVISION DATE 600' SCALE MAP NO.\_ BLOCK NO. OLD COLUMBIA PIKE RETAINING WALL REPLACEMENT

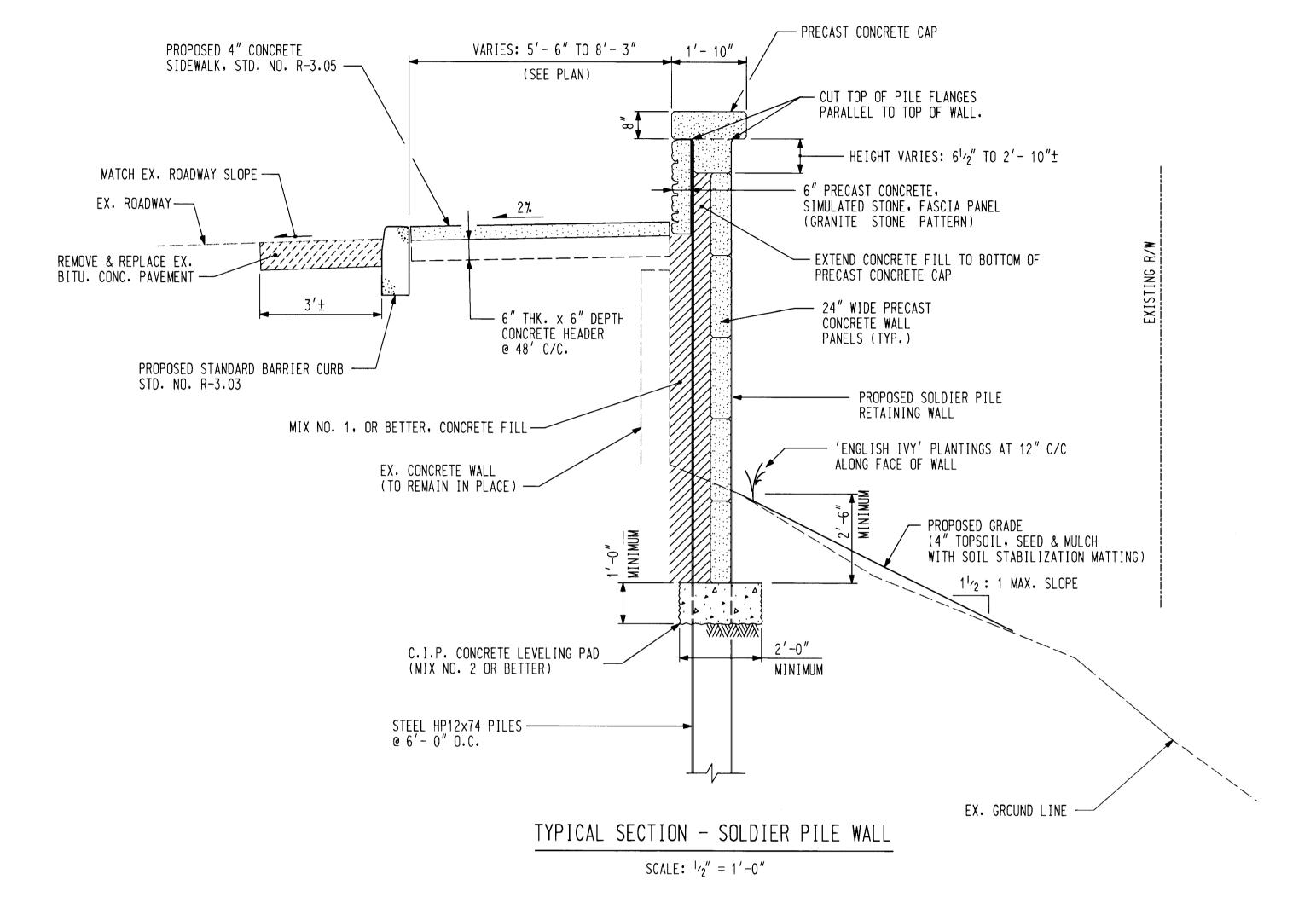
TITLE SHEET

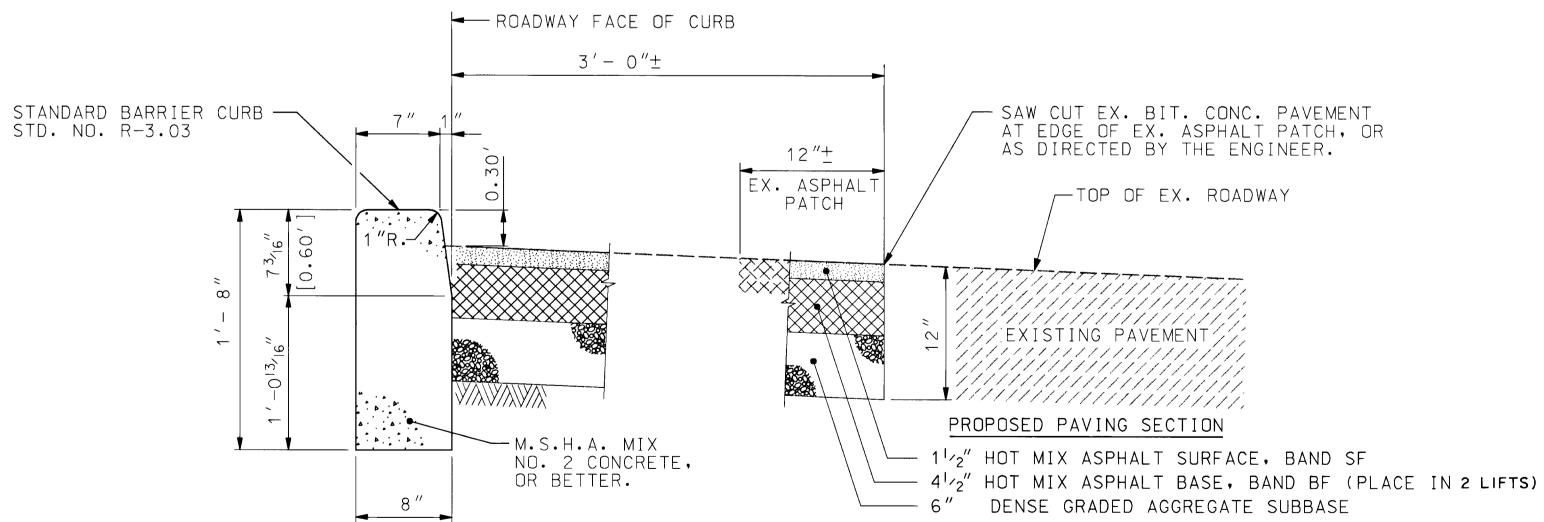
CAPITAL PROJECT B-3843

B1821-01 FILE NAME: CPRWTITL.DGN SHEET

1 OF 10





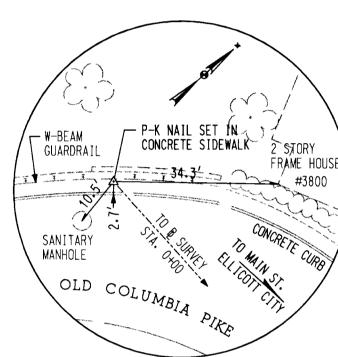


## PROPOSED CURB AND PAVING DETAIL

SCALE:  $1^{1}/2^{"} = 1^{'} - 0^{"}$ 

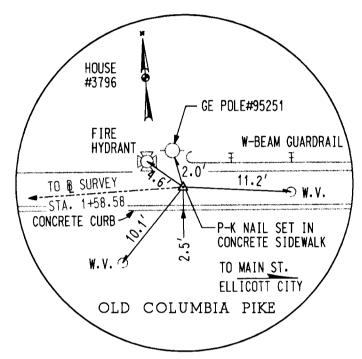
	BEARING	DISTANCE	COORDINATE	COORDINATE
	₽ CONSTRUC	TION		
P.C. STA. 10+00.00			582622.6240	1368653.4240
CURVE CENTER			582537.3654	1368737.8693
P.T. STA. 10+41.72			582588.7480	1368629.4260
	S 25° 21′ 09.8″ W	158.276		
STA. 12+00.00			582445.7160	1368561.6540
	€ PROPOSED	WALL		
BEGIN WALL P.C. STA. 0+00.00			582631.1498	1368644.9795
CURVE CENTER			582537.3654	1368737.8693
P.T. STA. 0+45.90			582593.8862	1368618.5817
	S 25° 21′ 09.8″ W	105.769		
END WALL STA. 1+51.67			582498.3036	1368573.2924
END WALL SIA. 1+51.67			582498.3036	1368573.292

CONSTRUCTION CONTROL COORDINATES



B SURVEY STA. 1+58.58

N 582612.1867 E 1368634.2334 ELEV. 232.31



NORTH

EAST

₽ SURVEY STA. 0+00

N 582631.0923 E 1368791.6817 ELEV. 220.98

	PILE	DATA		
	LOCATION	_	DESIGN DATA	
PILE NO.	B CONSTR. STA.	OFFSET	MINIMUM TIP ELEVATION	
1	10+00.76	12.00 RT.	209.0	
2	10+06.21	12.00 RT.	209.0	
3	10+11.67	12.00 RT.	209.0	
4	10+17.12	12.00 RT.	209.0	
5	10+22.58	12.00 RT.	209.0	
6	10+28.03	12.00 RT.	209.0	
7	10+33.48	12.00 RT.	211.0	
8	10+38.94	12.00 RT.	211.0	
9	10+44.66	12.00 RT.	211.0	
10	10+50.66	12.00 RT.	211.0	
11	10+56.66	12.00 RT.	213.0	
12	10+62.66	12.00 RT.	213.0	
13	10+68.66	12.00 RT.	213.0	
14	10+74.66	12.00 RT.	213.0	
15	10+80.66	12.00 RT.	215.0	
16	10+86.66	12.00 RT.	215.0	
17	10+92.66	12.00 RT.	215.0	
18	10+98.66	12.00 RT.	215.0	
19	11+04.66	12.00 RT.	217.0	
20	11+10.66	12.00 RT.	217.0	
21	11+16.66	12.00 RT.	217.0	
22	11+22.66	12.00 RT.	217.0	
23	11+28.66	12.00 RT.	219.0	
24	11+34.66	12.00 RT.	219.0	
25	11+40.66	12.00 RT.	219.0	
26	11+46.66	12.00 RT.	219.0	

		_agg0ffffpa_			
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	BRUDIS & ASSOCIATES, INC. consulting Engineers	DESIGNED BY: T.E.M.  DRAWN BY:			
DIRECTOR OF PUBLIC WORKS  DATE  CONTROL OF ENGINEERING  DATE	9220 RUMSEY ROAD; SUITE 210	T.E.M.  CHECKED BY:			
CHIEF, BUREAU OF HIGHWAYS DATE  CHIEF, BUREAU OF HIGHWAYS DATE  CHIEF, DIVISION OF TRANSPORTATION  CHIEF, DIVISION OF TRANSPORTATION  DATE  PROJECTS & WATERSHED MANAGEMENT	COLLIMBIA, MARYLAND 21045	A.J.B.  DATE: 6/19/97 B	BY NO.	REVISION DATE	E 600' SCALE MAP NO BLOCK NO

OLD COLUMBIA PIKE RETAINING WALL REPLACEMENT

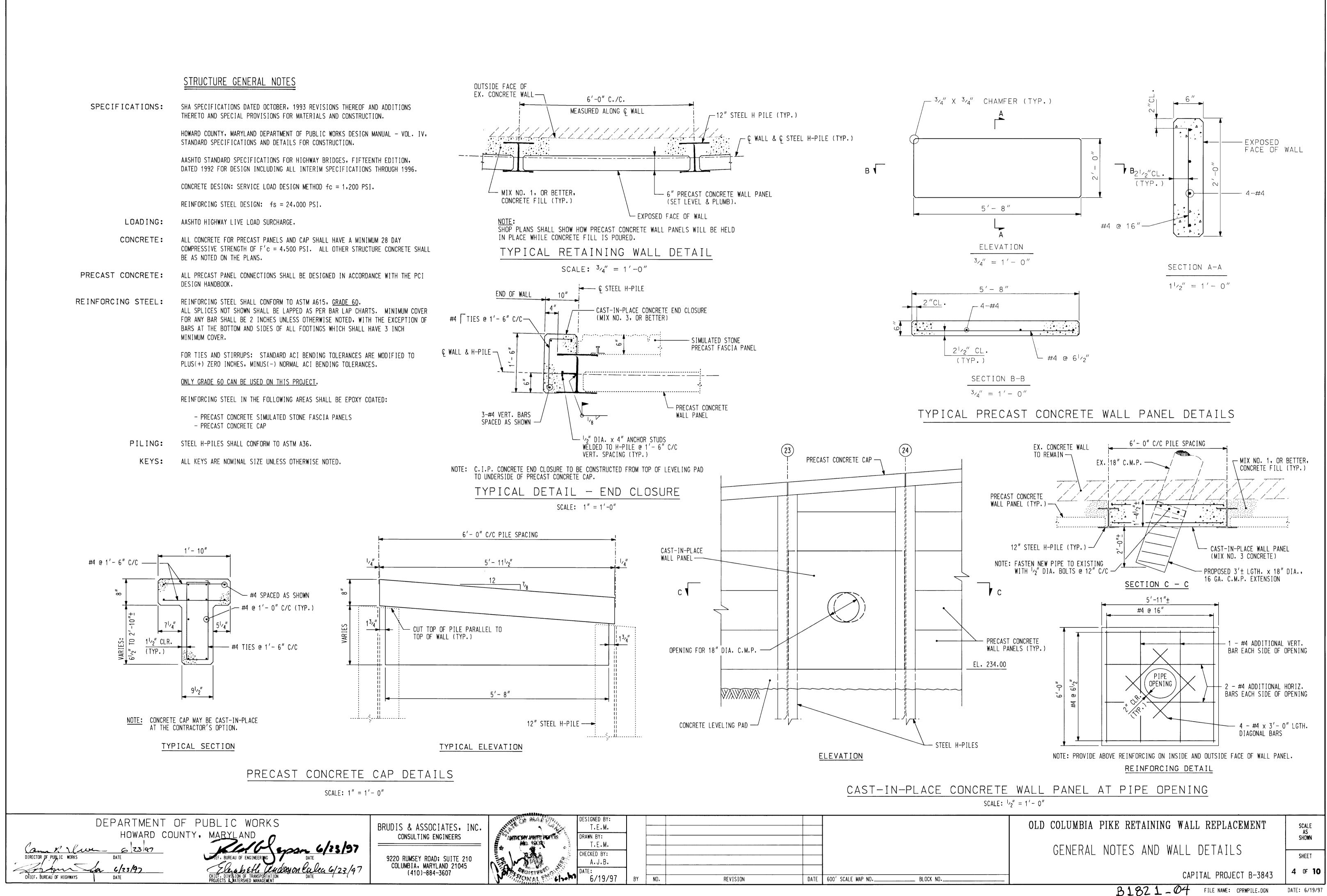
TYPICAL SECTION AND DETAILS

CAPITAL PROJECT B-3843

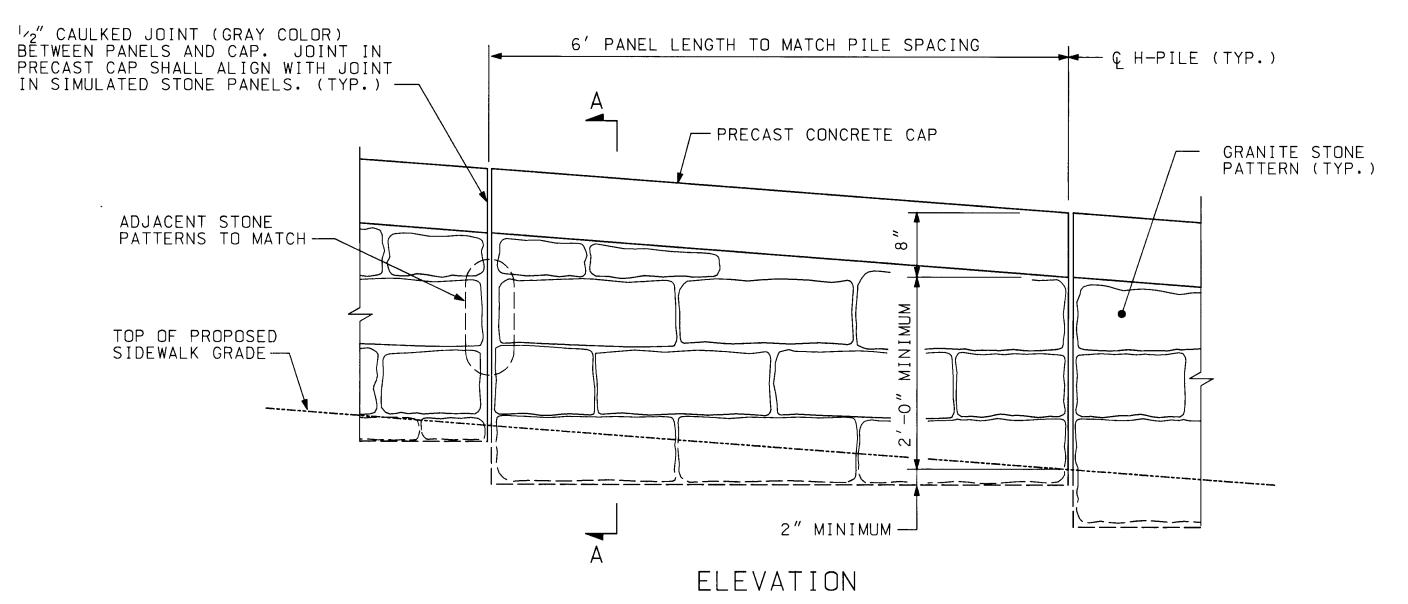
3 OF 10

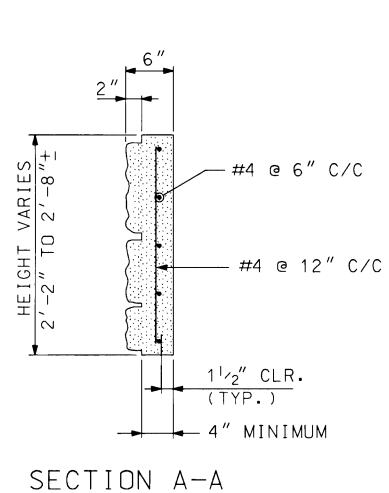
SCALE AS Shown

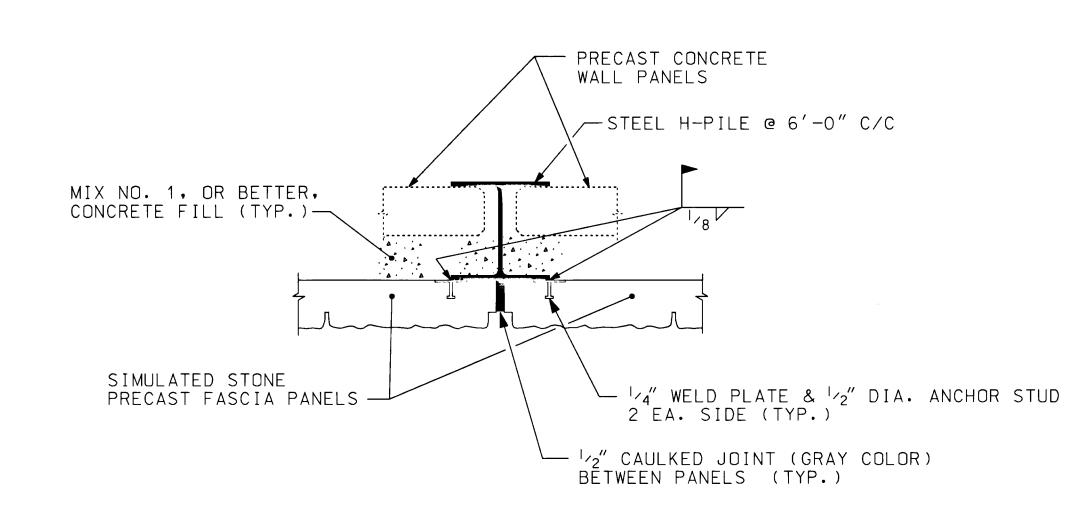
B1821\_03 FILE NAME: CPRWTYPS.DGN



DATE: 6/19/97







TYPICAL FASCIA PANEL CONNECTION DETAIL

SCALE: 1'' = 1' - 0''

TYPICAL 6" SIMULATED STONE PRECAST FASCIA PANEL SCALE: 1'' = 1' - 0''

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

BRUDIS & ASSOCIATES, INC. CONSULTING ENGINEERS

9220 RUMSEY ROAD; SUITE 210 COLUMBIA, MARYLAND 21045 (410)-884-3607

DESIGNED BY: T.E.M. T.E.M. CHECKED BY: DATE: 6/19/97

REVISION

DATE 600' SCALE MAP NO.

\_ BLOCK NO.\_

OLD COLUMBIA PIKE RETAINING WALL REPLACEMENT

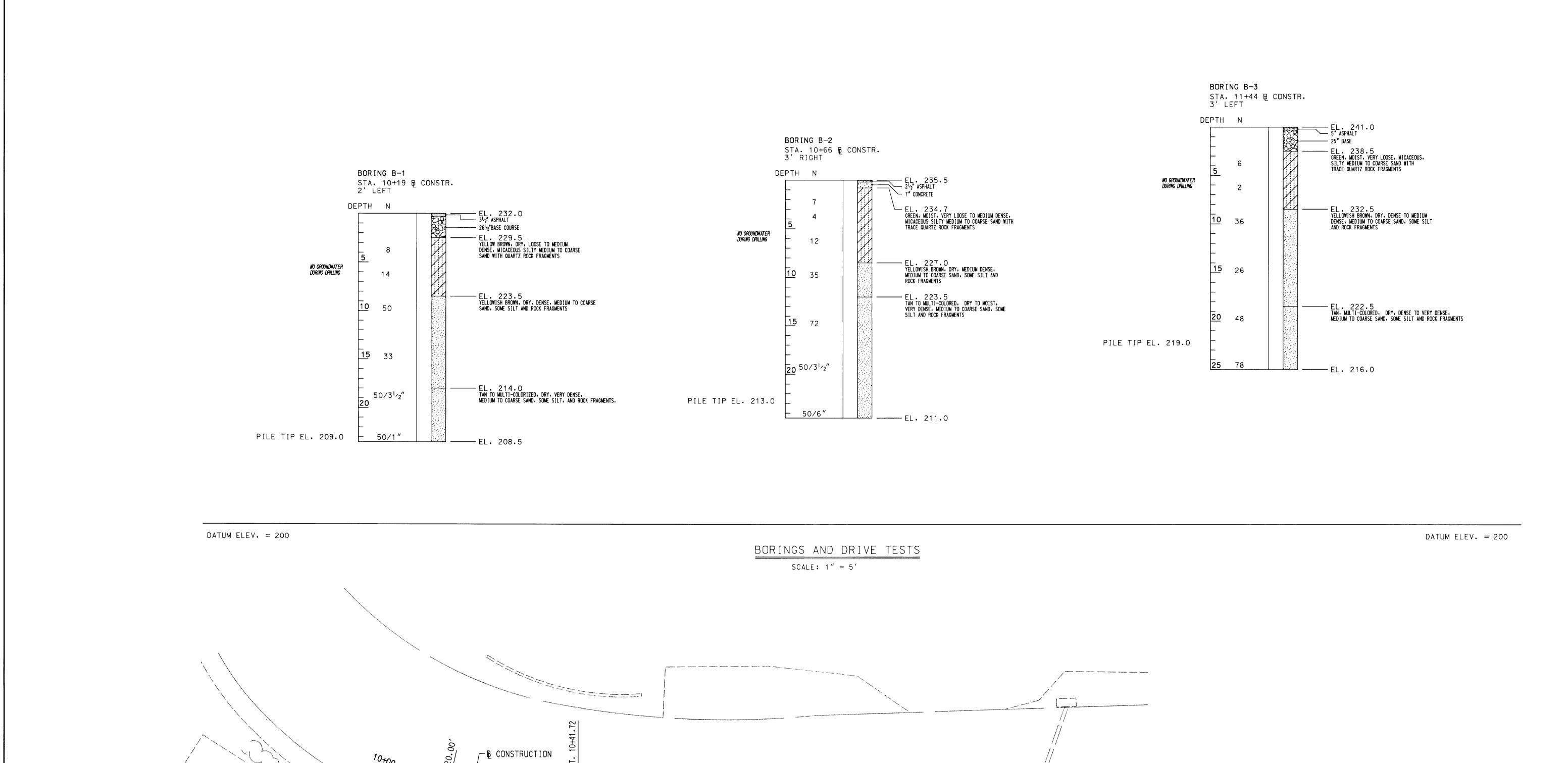
FASCIA PANEL DETAILS

5 OF **10** CAPITAL PROJECT B-3843

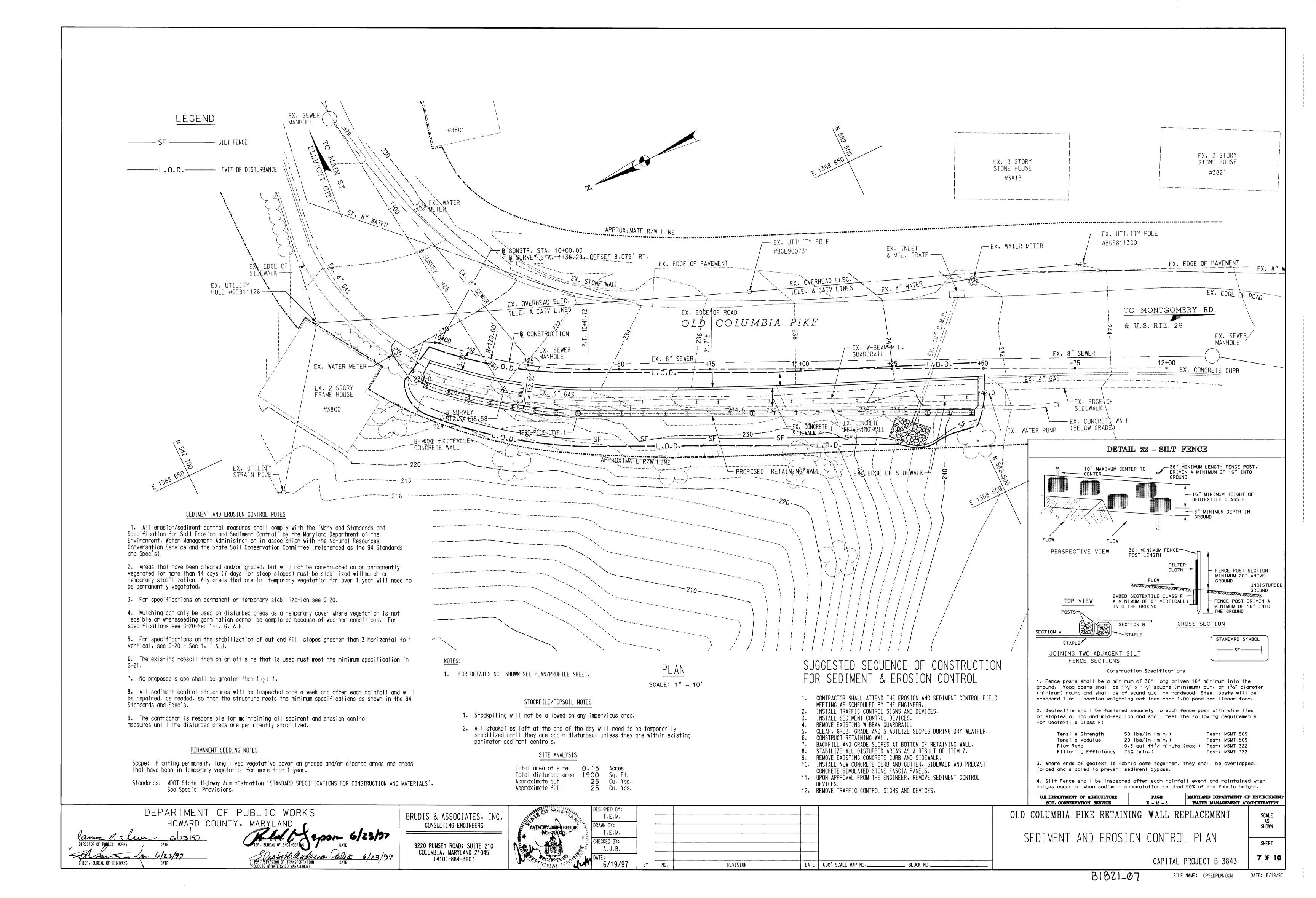
B1821\_05 FILE NAME: CPRWDTL2.DGN

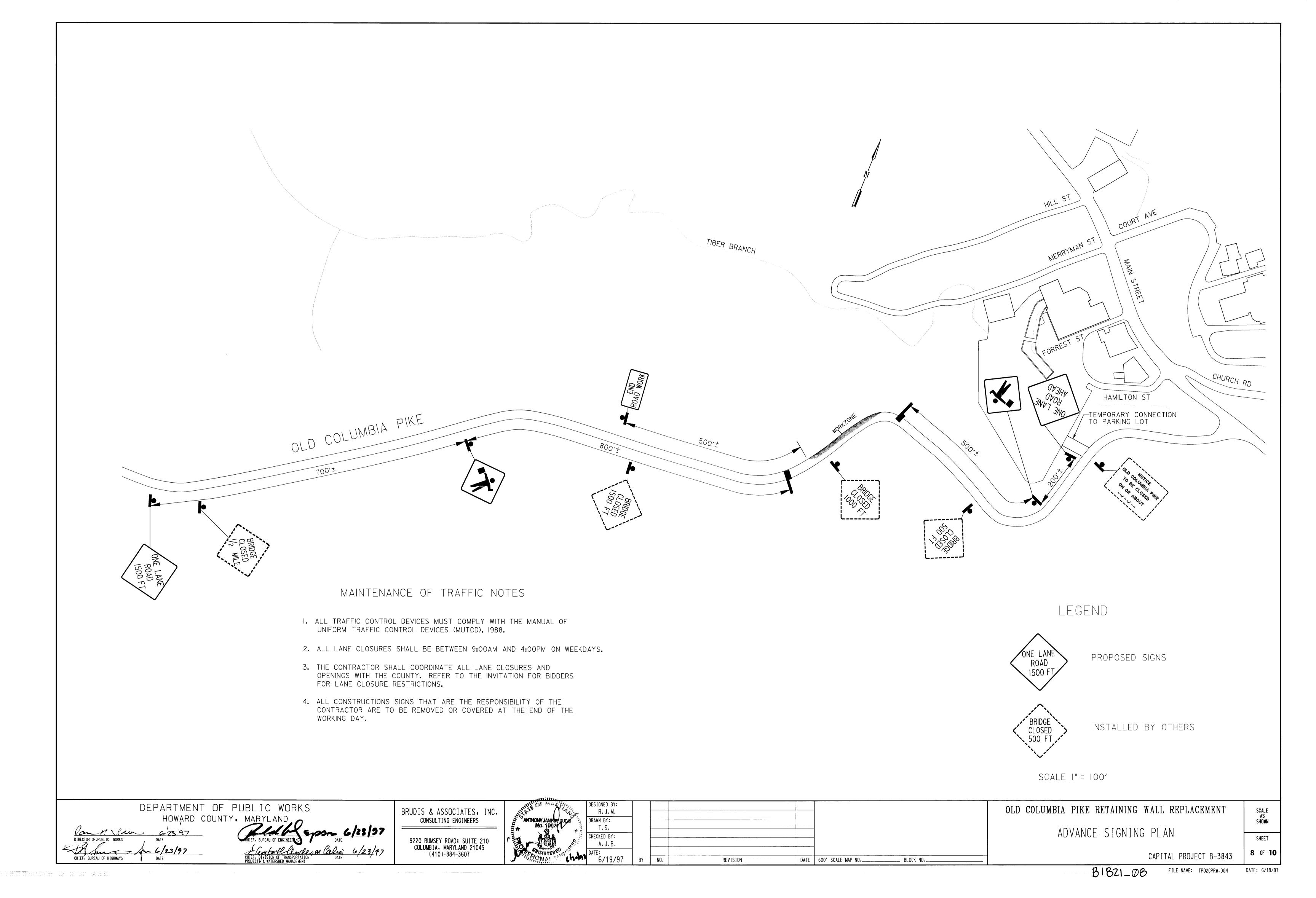
SCALE AS Shown

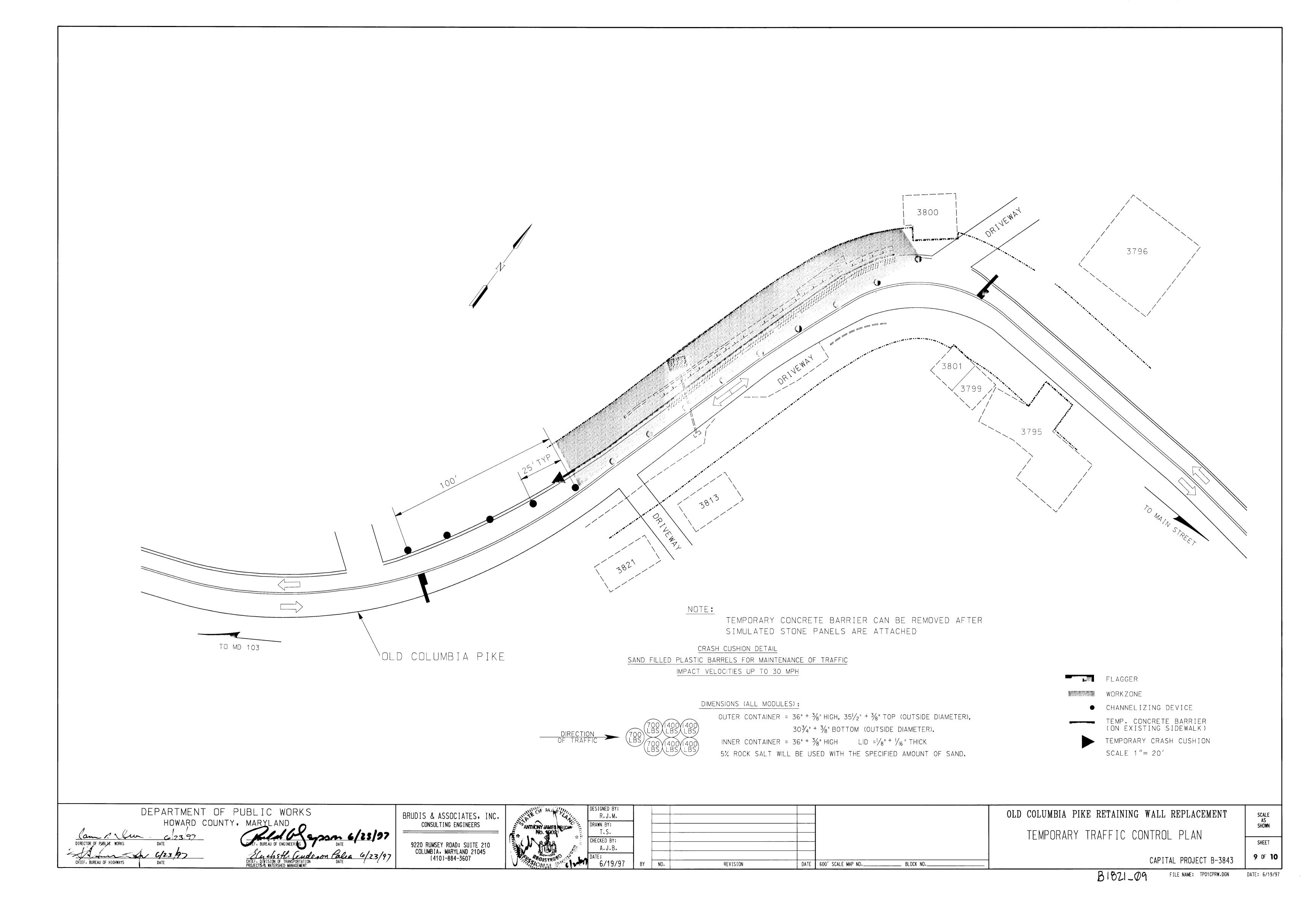
SHEET

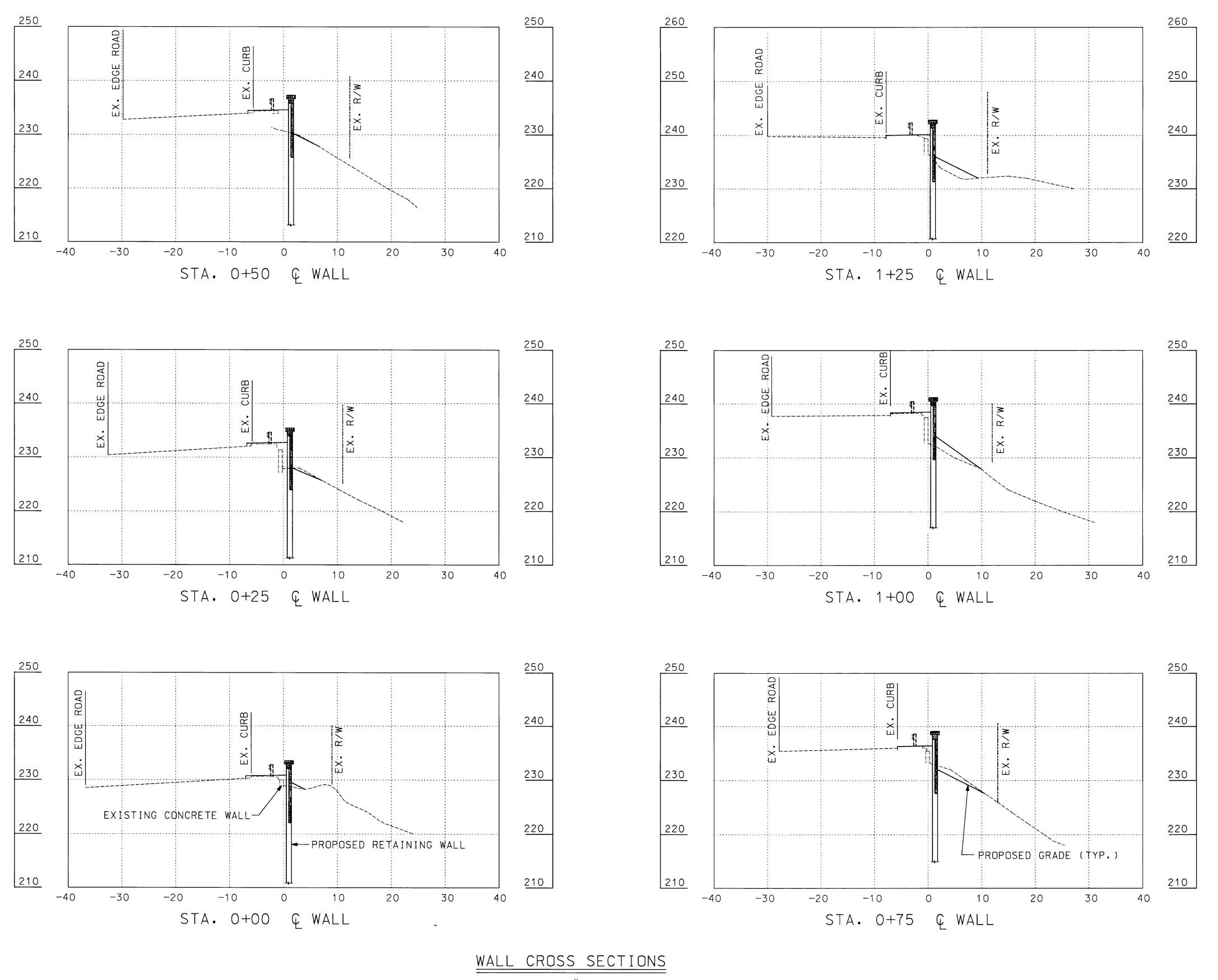


11+00 BORINGS AND DRIVE TESTS WERE PERFORMED AT THE DIRECTION OF HILLIS - CARNES ENGINEERING ASSOCIATES, INC., DURING JANUARY, 1997. 2. N = STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT, OBTAINED BY THE ASTM D1586 PROCEDURE USING A 2" O.D. SAMPLER WITH 140 LB. HAMMER @ 30 INCH DROP. BORING LOCATION PLAN 3. DEPTH SCALE IN FEET BELOW SURFACE. SCALE: 1'' = 10 FT. DEPARTMENT OF PUBLIC WORKS OLD COLUMBIA PIKE RETAINING WALL REPLACEMENT BRUDIS & ASSOCIATES, INC. consulting engineers SCALE AS SHOWN T.E.M. HOWARD COUNTY, MARYLAND DRAWN BY: T.E.M. BORINGS AND DRIVE TESTS CHECKED BY: SHEET 9220 RUMSEY ROAD; SUITE 210 COLUMBIA, MARYLAND 21045 (410)-884-3607 A.J.B. Elected Andrew Cale (/23/9)
CHIEF DIVISION OF TRANSPORTATION DATE
PROJECTS & WATERSHED MANAGEMENT DATE: 6/19/97 6 OF 10 CAPITAL PROJECT B-3843 CHIEF, BUREAU OF HIGHWAYS V DATE **REVISION** 600' SCALE MAP NO.\_ BLOCK NO. B1821\_06 FILE NAME: CPRWBORL.DGN DATE: 6/19/97









SCALE: 1'' = 10 FT.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 6/23/97

BRUDIS & ASSOCIATES, INC. consulting engineers

9220 RUMSEY ROAD; SUITE 210 COLUMBIA, MARYLAND 21045 (410)-884-3607

RELEDON							
MICH REPORT	DESIGNED BY:						
ARKEN DOLLEGE	T.E.M.						
1903	DRAWN BY: T.E.M.						
<b>76</b>	CHECKED BY:						
TEACOLT.	A. J. B.						
LENGO CHA	DATE:	•					
AL ENERGY > 1	6/19/97	BY	NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO

OLD COLUMBIA PIKE RETAINING WALL REPLACEMENT CROSS SECTIONS

CAPITAL PROJECT B-3843

B1821\_10 FILE NAME: CPRWXS.DGN DATE: 6/19/97

SCALE AS Shown

SHEET

10 OF 10