

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	OVERALL PLAN VIEW
4-19	PAVING, STORM DRAIN & SEDIMENT CONTROL PLAN
20	DETAILS

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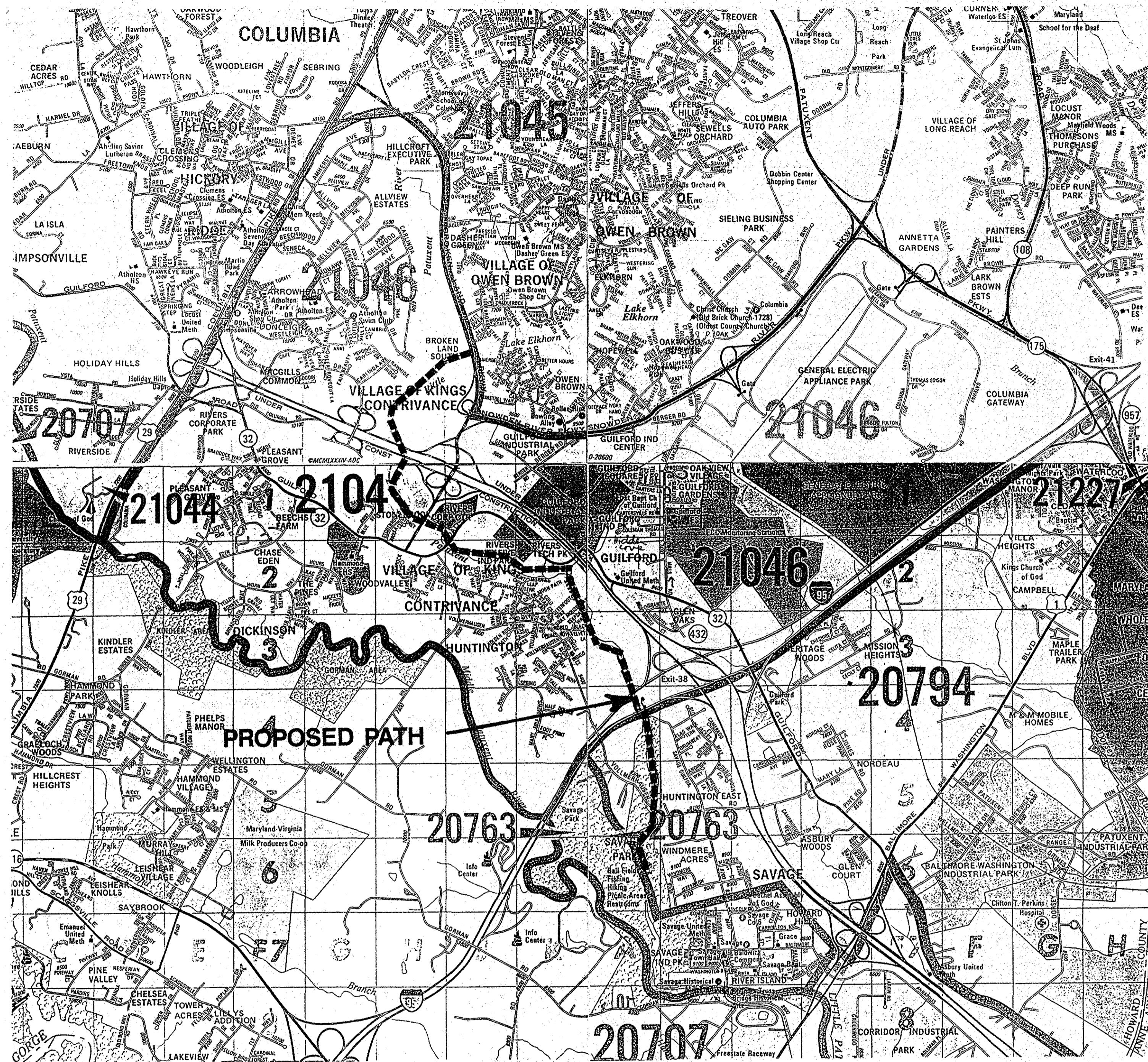
CONSULTANT'S CERTIFICATION
 I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICABLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

DANIEL J. MALETIC
 MD P.E. No. 13759

CERTIFICATE OF COMPLIANCE
 I HEREBY CERTIFY THAT THE GRADING SHOWN HEREON CONFORMS WITH SUBTITLE FOUR, DIVISION THREE OF THE PRINCE GEORGE'S COUNTY BUILDING CODE.

I CERTIFY THAT I HAVE INSPECTED THIS SITE AND THAT DRAINAGE ON THIS SITE FROM OTHER UPGRADE PROPERTIES, AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES HAS BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

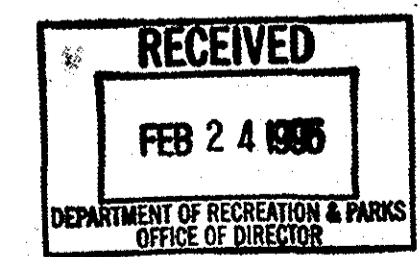
DANIEL J. MALETIC
 MD P.E. No. 13759



- GENERAL NOTES
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT CONTRACTOR'S EXPENSE.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
 - FOR DETAILS NOT SHOWN ON THE DRAWING USE HOWARD COUNTY STANDARD DETAILS "DESIGN MANUAL VOLUME FOUR".
 - FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION 531-5533
 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE 685-0123
 ENGINEERING DAMAGE CONTROL 234-5621
 MISS UTILITY 1-800-257-7777
 BELL ATLANTIC TELEPHONE 1-800-870-0000
 AMERICAN TELEPHONE & TELEGRAPH CABLE LOCATION DIVISION 393-3553
 COLONIAL PIPELINE COMPANY 781-4641
 BUREAU OF UTILITIES, HOWARD COUNTY 992-2366
 - AVOID DAMAGE TO TREES ON THE PATHWAY TO MAXIMUM EXTENT. OTHER TREES WITHIN LIMITS OF CONSTRUCTION SHALL NOT BE DESTROYED WITHOUT APPROVAL OF THE ENGINEER.
 - CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOT ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
 - ALL GRADING SHALL BE LIMITED TO SIDE SLOPES AND STABILIZATION ONLY. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED AS FOLLOWS:
 A. SEVEN (7) CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1); AND
 B. FOURTEEN (14) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

90161.01\MS\CMSC01

HOWARD COUNTY PATHWAY SYSTEM — PHASE 2
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 CAPITAL PROJECT N-3906JJ



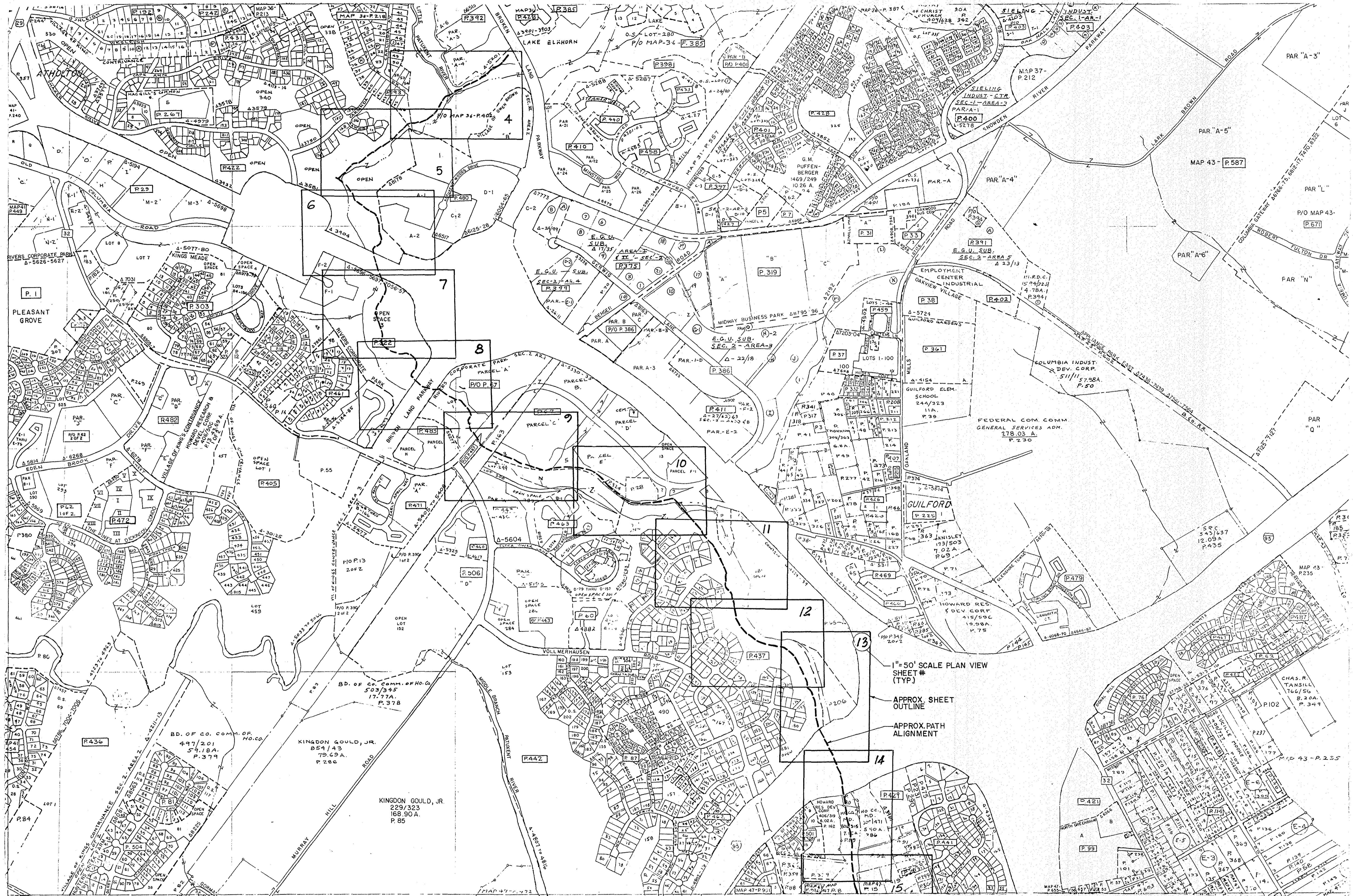
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND			
DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, LAND DEVELOPMENT DIVISION	DATE

gpi
 GREENMAN-PEDERSEN INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 LAUREL, MARYLAND

DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY NO.	REVISION	DATE

TITLE SHEET
 600' SCALE MAP NO. _____ BLOCK NO. _____

HOWARD COUNTY PATHWAY SYSTEM — PHASE 2 CAPITAL PROJECT N-3906JJ HOWARD COUNTY, MARYLAND		SCALE
		SHEET 1 OF 20



1" = 50' SCALE PLAN VIEW
 SHEET # (TYP)
 APPROX. SHEET
 OUTLINE
 APPROX. PATH
 ALIGNMENT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND



DES: E.B.					
DRN: A.K.					
CHK: K.P.					
DATE:	BY	NO	REVISION	DATE	600' SCALE MAP NO. BLOCK NO.

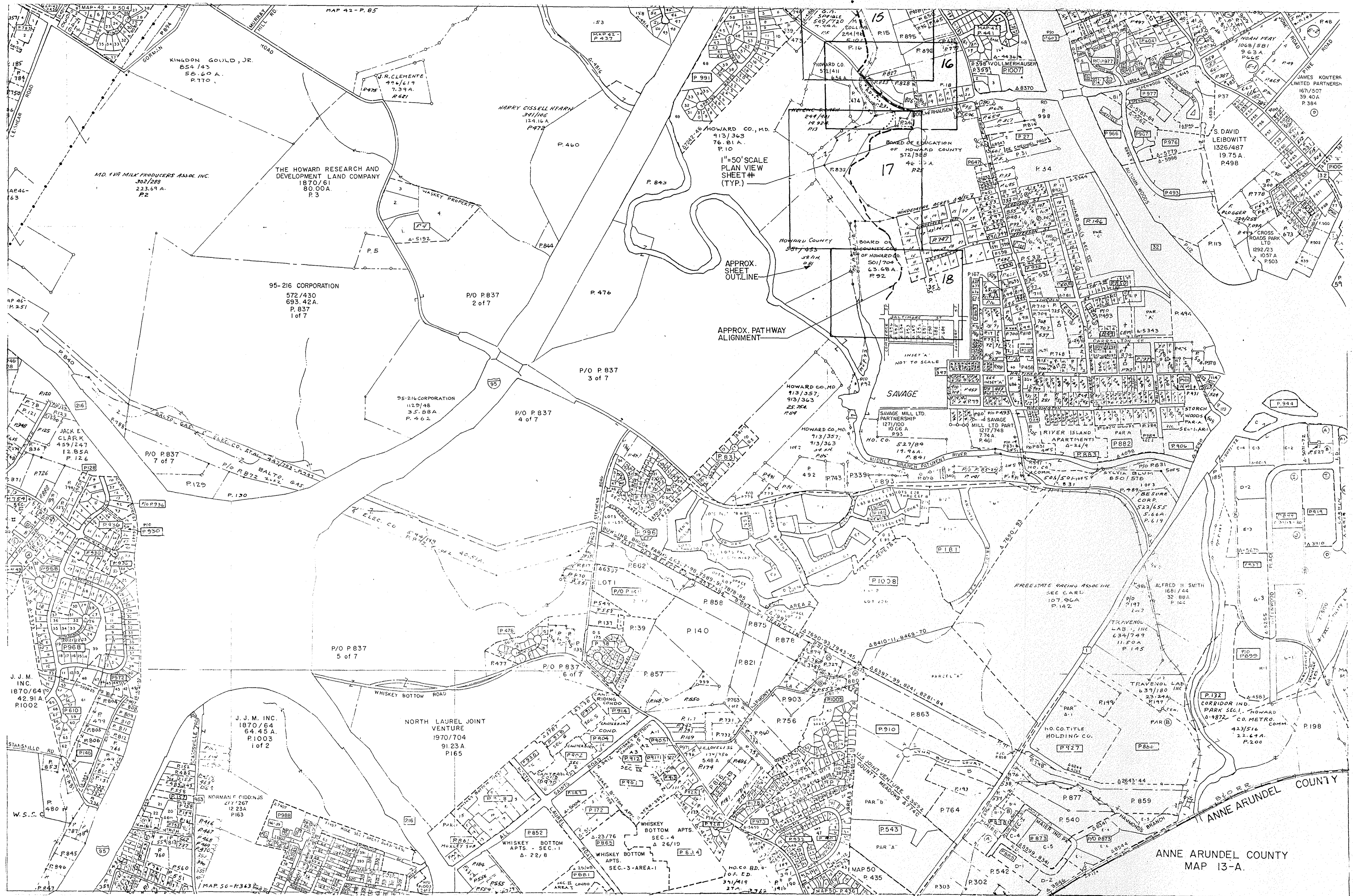
HOWARD CO. PATHWAY SYSTEM - PHASE 3

CAPITAL PROJECT NO. N-3906JJ

HOWARD COUNTY, MARYLAND

SCALE
 1" = 600'
 SHEET
 2 OF 20

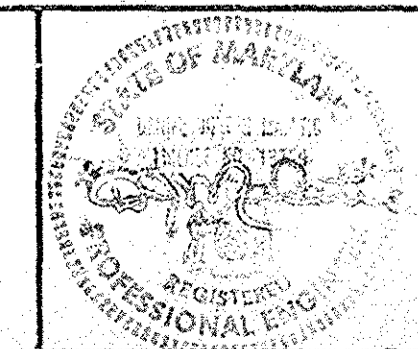
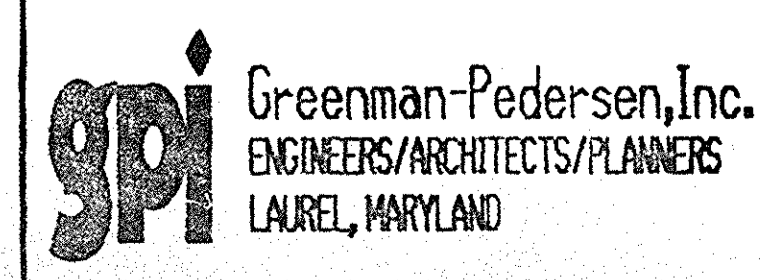
DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF HIGHWAYS	DATE	CHIEF, DIVISION OF ROADS, BRIDGES & STORM DRAINAGE	DATE



ANNE ARUNDEL COUNTY
MAP 13-A.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF HIGHWAYS	DATE	CHIEF, DIVISION OF ROADS, BRIDGES & STORM DRAINAGE	DATE



DES: D.D.					
DRN: A.K.					
CHK: K.P.					
DATE:	BY	NO	REVISION	DATE	600' SCALE MAP NO.
					BLOCK NO.

HOWARD CO. PATHWAY SYSTEM - PHASE 3
CAPITAL PROJECT NO. N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1" = 600'
SHEET
3 OF 20

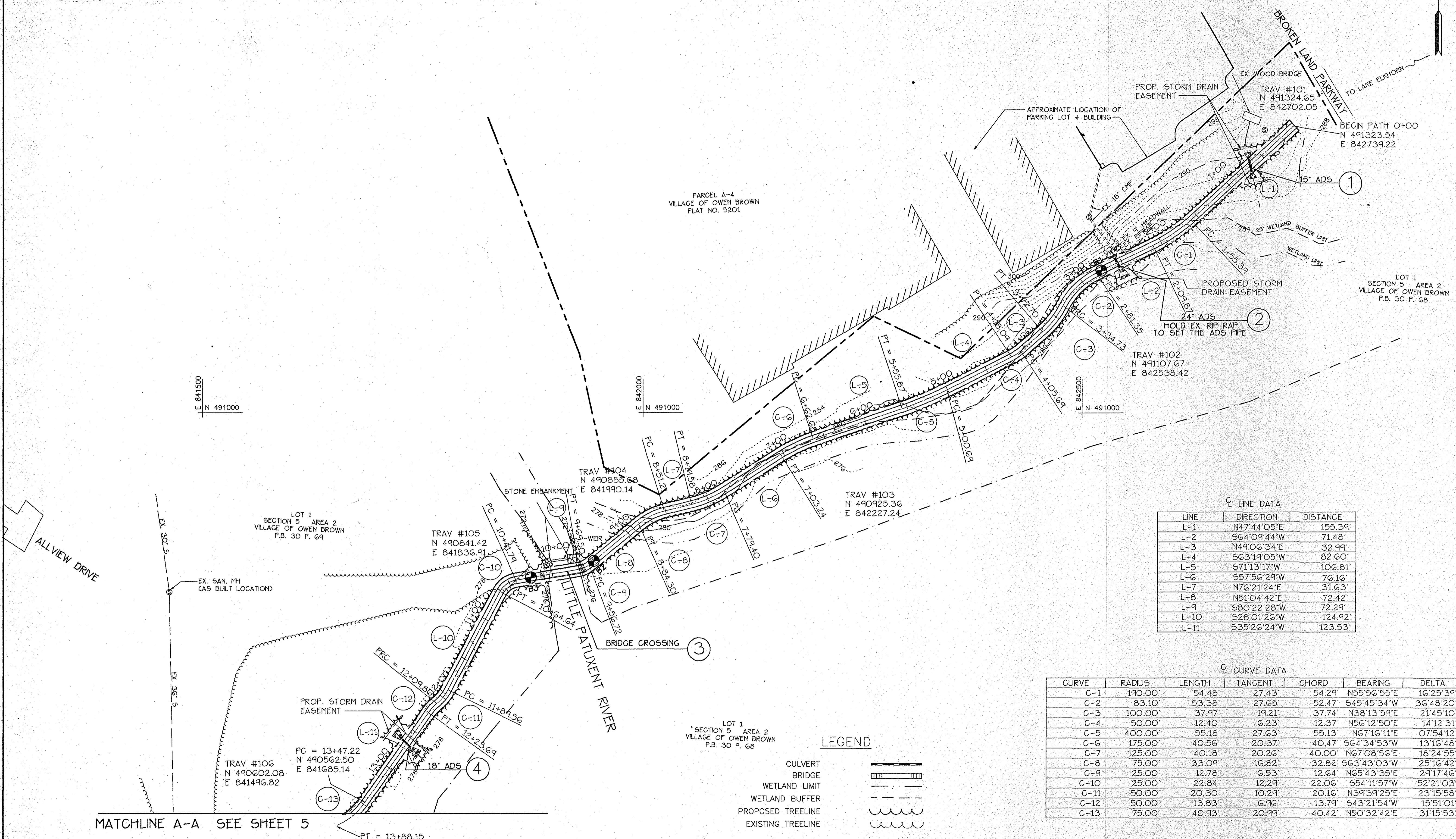
E 842000
N 491500

E 842500
N 491500

E 841500
N 491000

E 842000
N 491000

E 842500
N 491000



LINE DATA

LINE	DIRECTION	DISTANCE
L-1	N47°44'05"E	155.39'
L-2	S64°09'44"W	71.48'
L-3	N49°06'34"E	32.99'
L-4	S63°19'05"W	82.60'
L-5	S71°13'17"W	106.81'
L-6	S57°56'29"W	76.16'
L-7	N76°21'24"E	31.63'
L-8	N51°04'42"E	72.42'
L-9	S80°22'28"W	72.29'
L-10	S28°01'26"W	124.92'
L-11	S35°26'24"W	123.53'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	190.00'	54.48'	27.43'	54.29'	N55°56'55"E	16°25'39"
C-2	83.10'	53.38'	27.65'	52.47'	S45°45'34"W	36°48'20"
C-3	100.00'	37.97'	19.21'	37.74'	N38°13'59"E	21°45'10"
C-4	50.00'	12.40'	6.23'	12.37'	N56°12'50"E	14°12'31"
C-5	400.00'	55.18'	27.63'	55.13'	N67°16'11"E	07°54'12"
C-6	175.00'	40.56'	20.37'	40.47'	S64°34'53"W	13°16'48"
C-7	125.00'	40.18'	20.26'	40.00'	N67°08'56"E	18°24'55"
C-8	75.00'	33.09'	16.82'	32.82'	S63°43'03"W	25°16'42"
C-9	25.00'	12.78'	6.53'	12.64'	N65°43'35"E	29°17'46"
C-10	25.00'	22.84'	12.29'	22.06'	S54°11'57"W	52°21'03"
C-11	50.00'	20.30'	10.29'	20.16'	N39°39'25"E	23°15'58"
C-12	50.00'	13.83'	6.96'	13.79'	S43°21'54"W	15°51'01"
C-13	75.00'	40.93'	20.99'	40.42'	N50°32'42"E	31°15'53"

MATCHLINE A-A SEE SHEET 5

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE _____

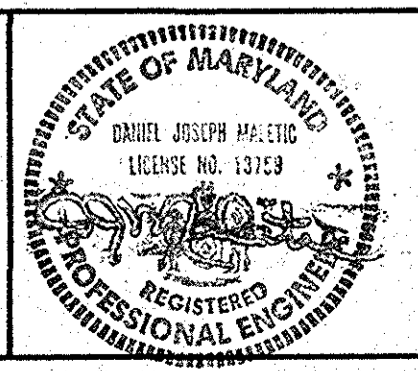
CHIEF, BUREAU OF ENGINEERING DATE _____

CHIEF, BUREAU OF UTILITIES DATE _____

CHIEF, LAND DEVELOPMENT DIVISION DATE _____

spi

GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP

DRN: AAP,RAK

CHK: DJM

DATE: 3/3/94

BY NO. _____

REVISION _____

DATE _____

SITE PLAN

STA 0+00 - STA 13+47.22

600' SCALE MAP NO. _____

BLOCK NO. _____

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2

CAPITAL PROJECT N-3906JJ

HOWARD COUNTY, MARYLAND

SCALE
1"=50'

SHEET
4 OF 20

E 840500
N 490500

E 841000
N 490500

MATCHLINE A-A SEE SHEET 4

PC = 13+47.22
N 490562.50
E 841685.14



OPEN SPACE
LOT 339
VILLAGE OF KINGS CONTRIVANCE
PLAT #3904

TRAV #108
N 440286.10
E 841071.27

TRAV #107
N 490392.11
E 841037.16

LOT 1
SECTION 5 AREA 2
VILLAGE OF OWEN BROWN
PB.30 P.68

OPEN SPACE
LOT 1
SECTION 6 AREA 1
VILLAGE OF OWEN BROWN
PB.85 P.26

OPEN SPACE
LOT 339
VILLAGE OF KINGS CONTRIVANCE
PLAT #3904

TRAV #109
N 489939.92
E 840780.34

TRAV #110
N 489904.55
E 840473.00

TRAV #111
N 489702.07
E 840502.56

PC = 32+41.06
N 489540.20
E 840589.68

EX. MACADAM PATH
FROM CARLINDA DRIVE

25' WETLAND BUFFER LIMIT
WETLAND LIMIT

LITTLE PATUXENT RIVER

LITTLE PATUXENT RIVER
BRIDGE CROSSING 6

EX. SAN. MH
(CAS BUILT LOCATION)

BRIDGE CROSSING 5

EX. SAN. MH
(CAS BUILT LOCATION)

EX. SAN. MH
(CAS BUILT LOCATION)

LEGEND

- CULVERT
- BRIDGE
- WETLAND LIMIT
- WETLAND BUFFER
- PROPOSED TREELINE
- EXISTING TREELINE

PARCEL A-3
SECTION 6 AREA 1
VILLAGE OF OWEN BROWN
PLAT #9509

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S66°10'39"W	114.15'
L-2	N89°51'19"W	114.13'
L-3	S53°08'50"W	88.98'
L-4	S45°38'00"W	161.29'
L-5	S60°03'00"W	268.22'
L-6	S71°57'39"W	34.47'
L-7	N48°14'10"E	92.77'
L-8	S85°01'20"W	33.95'
L-9	S43°54'17"W	123.71'
L-10	S56°17'21"W	60.89'
L-11	N41°59'03"E	50.05'
L-12	S32°55'26"E	314.96'

CURVE DATA

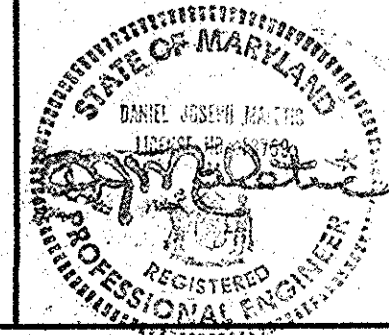
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	75.00'	40.93'	20.99'	40.42'	N50°32'42"E	31°15'53"
C-2	75.00'	31.37'	15.92'	31.14'	N78°09'40"E	23°58'02"
C-3	100.00'	64.57'	33.46'	63.46'	S71°38'46"W	36°59'51"
C-4	200.00'	26.23'	13.13'	26.21'	S49°23'25"W	07°30'51"
C-5	175.00'	44.03'	22.13'	43.92'	N52°50'30"E	14°25'00"
C-6	100.00'	20.79'	10.43'	20.75'	N66°00'19"E	11°54'39"
C-7	50.00'	20.70'	10.50'	20.56'	S60°05'54"W	23°43'29"
C-8	200.00'	128.41'	66.50'	126.21'	N66°37'45"E	36°47'11"
C-9	50.00'	35.88'	18.75'	35.12'	S64°27'49"W	41°07'03"
C-10	50.00'	10.81'	5.42'	10.79'	N50°05'49"E	12°23'04"
C-11	75.00'	18.73'	9.41'	18.68'	S49°08'12"W	14°18'17"
C-12	30.00'	46.72'	29.59'	42.13'	S11°40'57"W	89°12'47"

MATCHLINE B-B SEE SHEET 6

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

spi

GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP					
DRN: AAP,RAK					
CHK: DJM					
DATE: 3/3/93	BY: NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.

SITE PLAN

STA 13+47.22 - STA 32+41.06

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

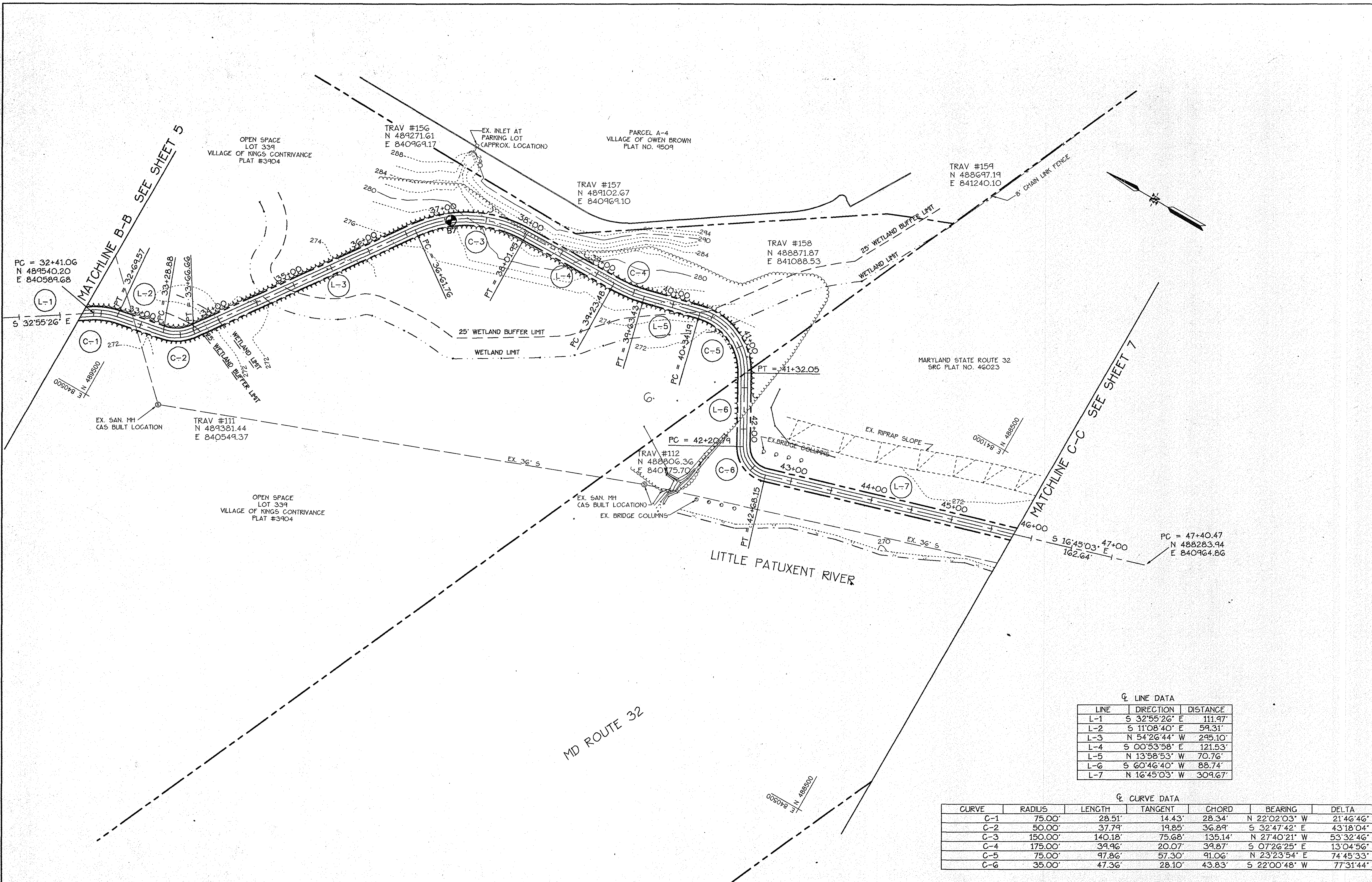
SCALE

1"=50'

SHEET

5 OF 20

HP982.DWG



☉ LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S 32°55'26" E	111.97'
L-2	S 11°08'40" E	59.31'
L-3	N 54°26'44" W	295.10'
L-4	S 00°53'58" E	121.53'
L-5	N 13°58'53" W	70.76'
L-6	S 60°46'40" W	88.74'
L-7	N 16°45'03" W	309.67'

☉ CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	75.00'	28.51'	14.43'	28.34'	N 22°02'03" W	21°46'46"
C-2	50.00'	37.79'	19.85'	36.89'	S 32°47'42" E	43°18'04"
C-3	150.00'	140.18'	75.68'	135.14'	N 27°40'21" W	53°32'46"
C-4	175.00'	39.96'	20.07'	39.87'	S 07°26'25" E	13°04'56"
C-5	75.00'	97.86'	57.30'	91.06'	N 23°23'54" E	74°45'33"
C-6	35.00'	47.36'	28.10'	43.83'	S 22°00'48" W	77°31'44"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF UTILITIES DATE

CHIEF, BUREAU OF ENGINEERING DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE

spi
GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP
DRN: AAP,RAK
CHK: DJM
DATE: 3/3/94

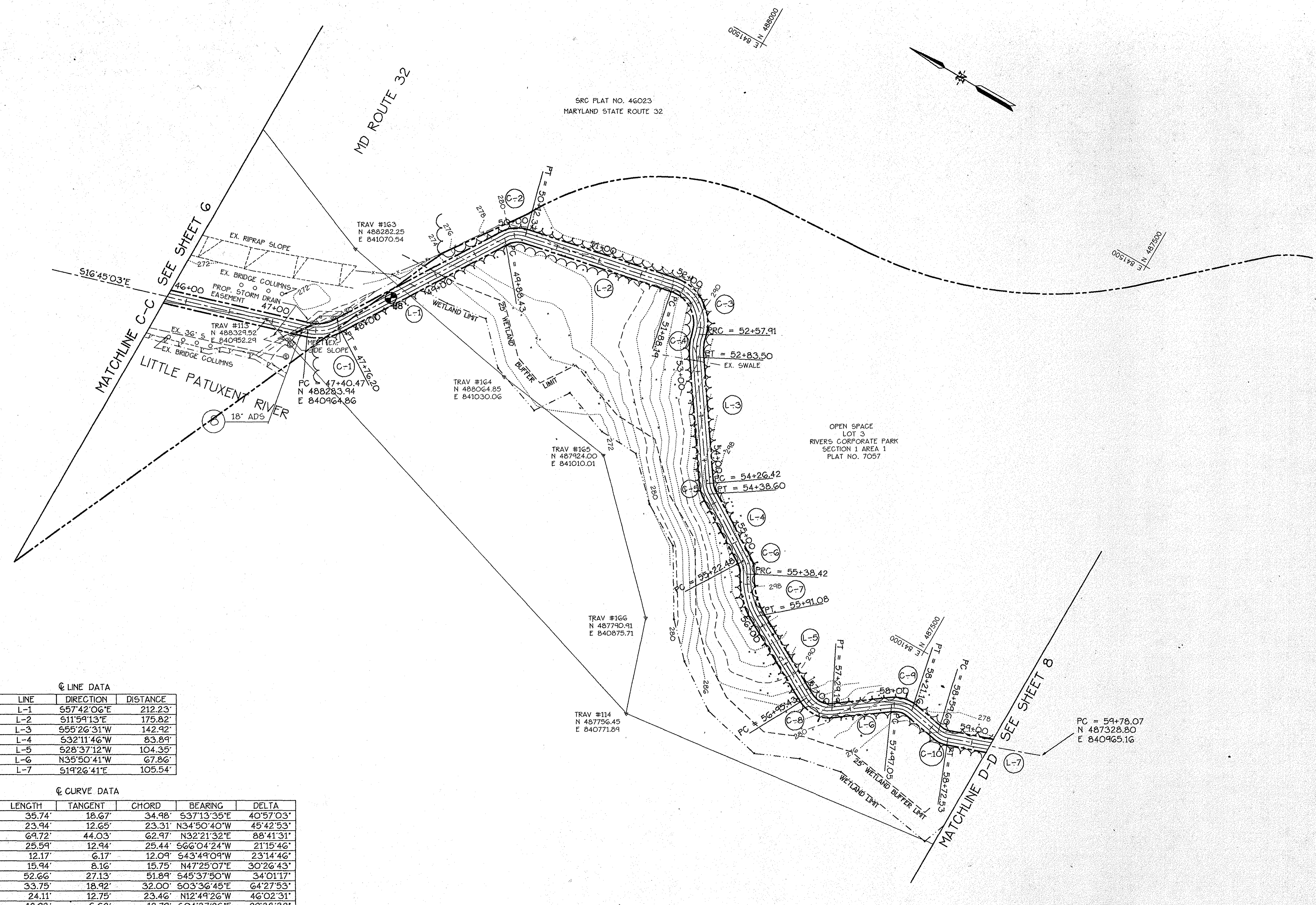
BY NO. REVISION DATE

SITE PLAN
STA 32+41.06 - STA 47+40.47

600' SCALE MAP NO. BLOCK NO.

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE 1"=50'
SHEET 6 OF 20



LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S57°42'06"E	212.23'
L-2	S11°59'13"E	175.82'
L-3	S55°26'31"W	142.92'
L-4	S32°11'46"W	83.89'
L-5	S28°37'12"W	104.35'
L-6	N35°50'41"W	67.86'
L-7	S19°26'41"E	105.54'

CURVE DATA

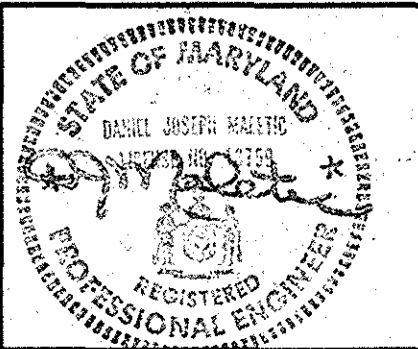
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	50.00'	35.74'	18.67'	34.98'	S37°13'35"E	40°57'03"
C-2	30.00'	23.94'	12.65'	23.31'	N34°50'40"W	45°42'53"
C-3	45.04'	69.72'	44.03'	62.97'	N32°21'32"E	88°41'31"
C-4	68.95'	25.59'	12.94'	25.44'	S66°04'24"W	21°15'46"
C-5	30.00'	12.17'	6.17'	12.09'	S43°49'09"W	23°14'46"
C-6	30.00'	15.94'	8.16'	15.75'	N47°25'07"E	30°26'43"
C-7	88.69'	52.66'	27.13'	51.89'	S45°37'50"W	34°01'17"
C-8	30.00'	33.75'	18.92'	32.00'	S03°36'45"E	64°27'53"
C-9	30.00'	24.11'	12.75'	23.46'	N12°49'26"W	46°02'31"
C-10	25.00'	12.93'	6.62'	12.79'	S04°37'26"E	29°38'32"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF ENGINEERING DATE

CHIEF, BUREAU OF UTILITIES DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE

spi
GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP
DRN: AAP,RAK
CHK: DJM
DATE: 3/3/94

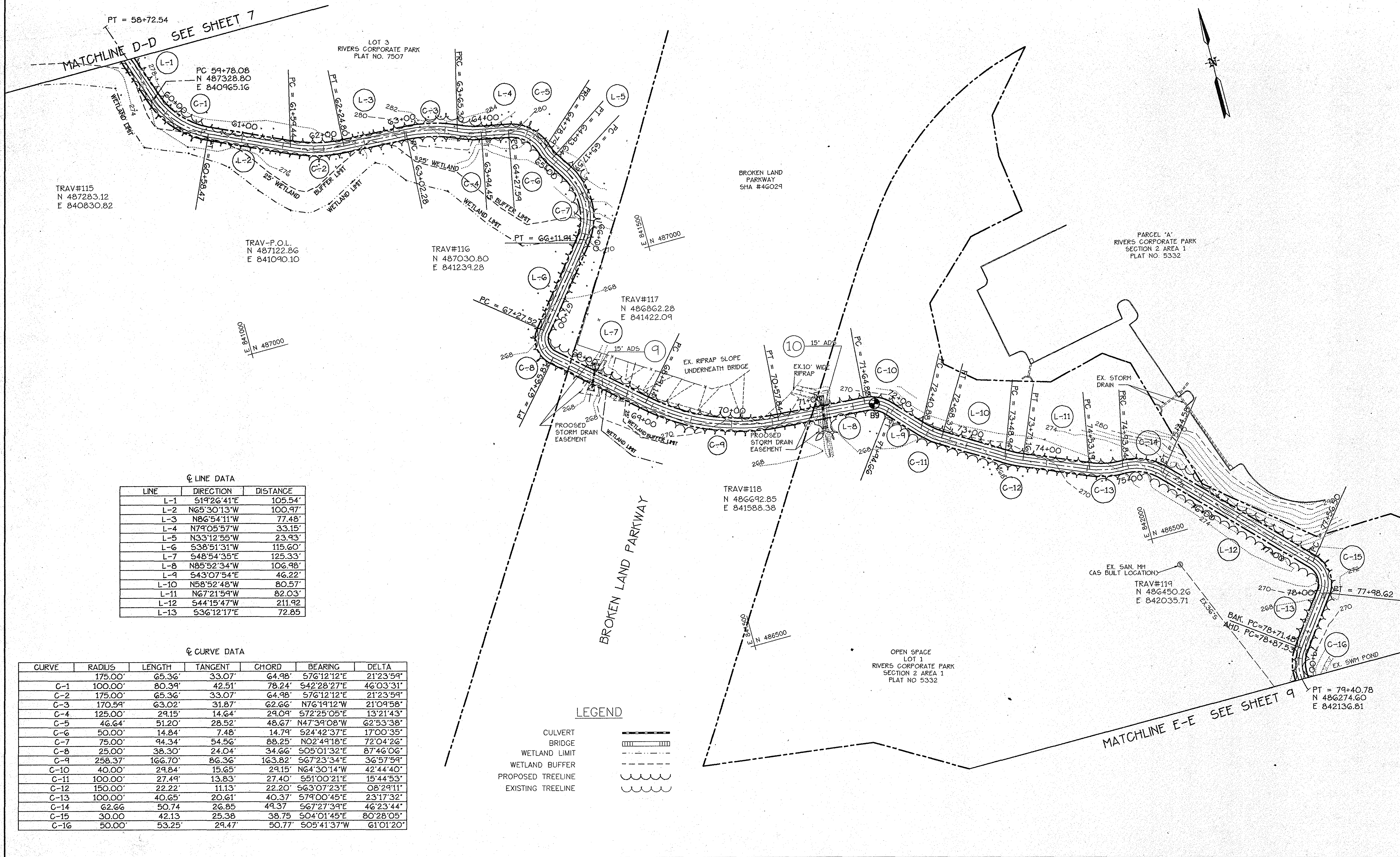
BY NO. REVISION DATE

SITE PLAN
STA 47+40.47 - STA 59+78.07

600' SCALE MAP NO. BLOCK NO.

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
7 OF

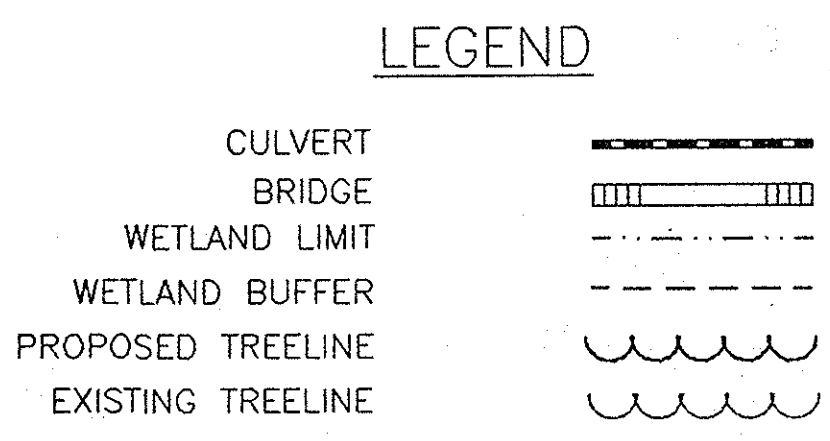


LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S19°26'41"E	105.54'
L-2	N65°30'13"W	100.47'
L-3	N86°54'11"W	77.48'
L-4	N79°05'57"W	33.15'
L-5	N33°12'55"W	23.93'
L-6	S38°51'31"W	115.60'
L-7	S48°54'35"E	125.33'
L-8	N85°52'34"W	106.98'
L-9	S43°07'54"E	46.22'
L-10	N58°52'48"W	80.57'
L-11	N67°21'59"W	82.03'
L-12	S44°15'47"W	211.92'
L-13	S36°12'17"E	72.85'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
	175.00'	65.36'	33.07'	64.98'	S76°12'12"E	21°23'59"
C-1	100.00'	80.39'	42.51'	78.24'	S42°28'27"E	46°03'31"
C-2	175.00'	65.36'	33.07'	64.98'	S76°12'12"E	21°23'59"
C-3	170.59'	63.02'	31.87'	62.66'	N76°19'12"W	21°09'58"
C-4	125.00'	29.15'	14.64'	29.09'	S72°25'05"E	13°21'43"
C-5	46.64'	51.20'	28.52'	48.67'	N47°39'08"W	62°53'38"
C-6	50.00'	14.84'	7.48'	14.79'	S24°42'37"E	17°00'35"
C-7	75.00'	44.34'	54.56'	88.25'	N02°49'18"E	72°04'26"
C-8	25.00'	38.30'	24.04'	34.66'	S05°01'32"E	87°46'06"
C-9	258.37'	166.70'	86.36'	163.82'	S67°23'34"E	36°57'59"
C-10	40.00'	29.84'	15.65'	29.15'	N64°30'14"W	42°44'40"
C-11	100.00'	27.49'	13.83'	27.40'	S51°00'21"E	15°44'53"
C-12	150.00'	22.22'	11.13'	22.20'	S63°07'23"E	08°29'11"
C-13	100.00'	40.65'	20.61'	40.37'	S79°00'45"E	23°17'32"
C-14	62.66'	50.74'	26.85'	49.37'	S67°27'39"E	46°23'44"
C-15	30.00'	42.13'	25.38'	38.75'	S04°01'45"E	80°28'05"
C-16	50.00'	53.25'	29.47'	50.77'	S05°41'37"W	61°01'20"

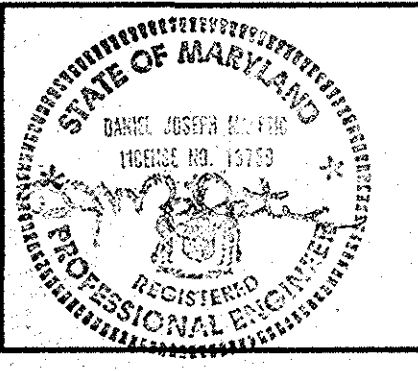


DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF ENGINEERING DATE

CHIEF, BUREAU OF UTILITIES DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE

spi
GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP
DRN: AAP,RAK
CHK: DJM
DATE: 3/3/94

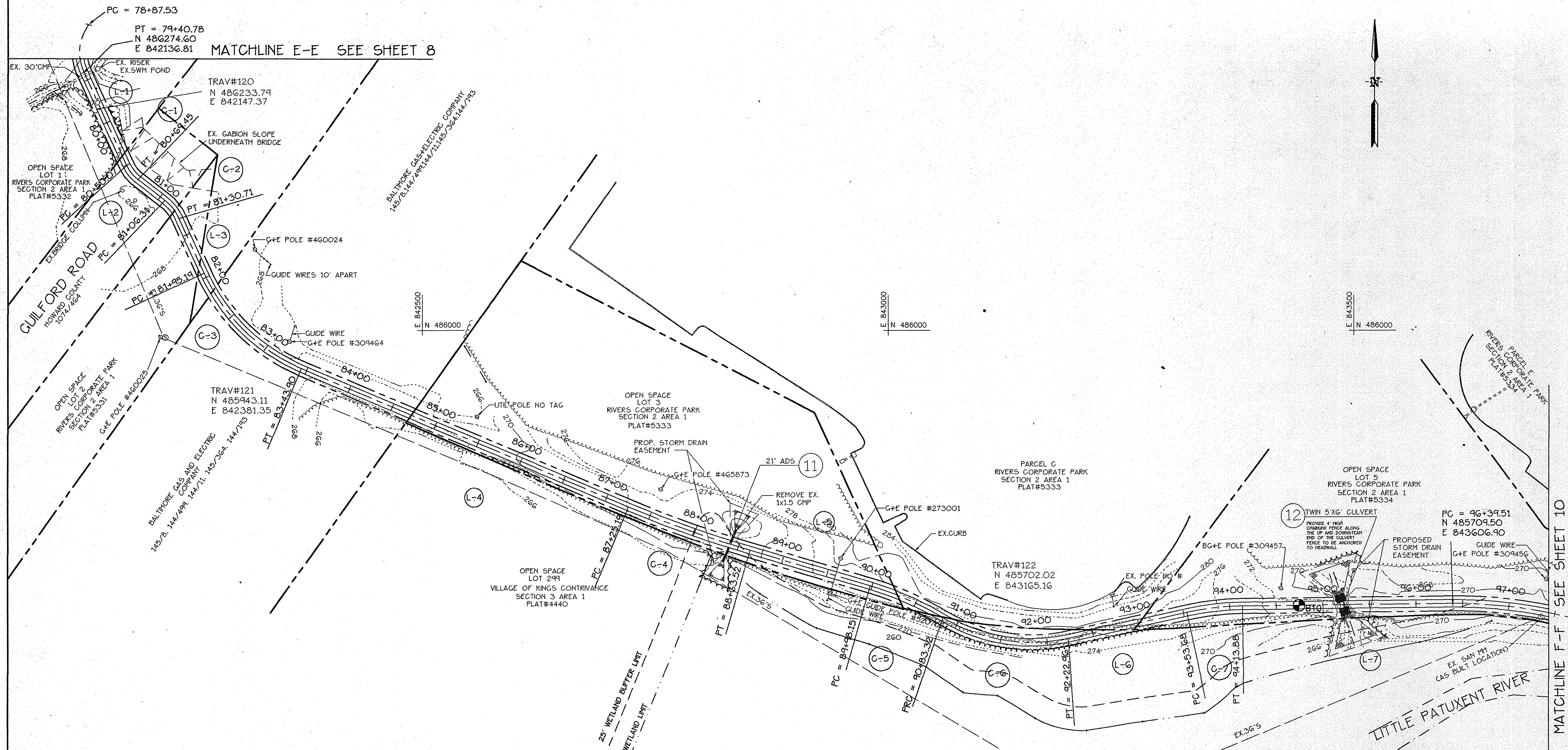
BY NO. REVISION DATE

SITE PLAN
STA 59+78.07 - STA 79+40.78

600' SCALE MAP NO. BLOCK NO.

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
8 OF 20



MATCHLINE E-E SEE SHEET 8

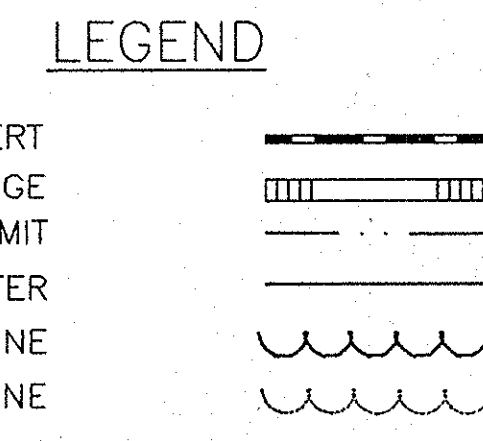
MATCHLINE F-F SEE SHEET 10

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S24°49'02"E	109.29'
L-2	N52°35'11"W	36.85'
L-3	S24°37'17"E	64.48'
L-4	N67°13'19"W	381.29'
L-5	S73°42'40"E	134.63'
L-6	S77°44'48"W	130.72'
L-7	S89°14'35"W	225.63'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	40.00'	19.39'	9.89'	19.20'	S38°42'07"E	27°46'08"
C-2	50.00'	24.40'	12.45'	24.16'	N38°36'14"W	27°57'54"
C-3	200.00'	148.70'	77.98'	145.30'	S45°55'18"E	42°36'02"
C-4	1221.45'	138.34'	69.24'	138.26'	S70°27'59"E	06°29'21"
C-5	336.72'	85.17'	42.81'	84.94'	N66°27'55"W	14°29'30"
C-6	185.92'	139.64'	73.30'	136.38'	S80°44'11"E	43°02'02"
C-7	300.00'	60.19'	30.20'	60.09'	S83°29'42"W	11°29'47"



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____
CHIEF, BUREAU OF ENGINEERING _____ DATE _____

CHIEF, BUREAU OF UTILITIES _____ DATE _____
CHIEF, LAND DEVELOPMENT DIVISION _____ DATE _____

spi
GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND

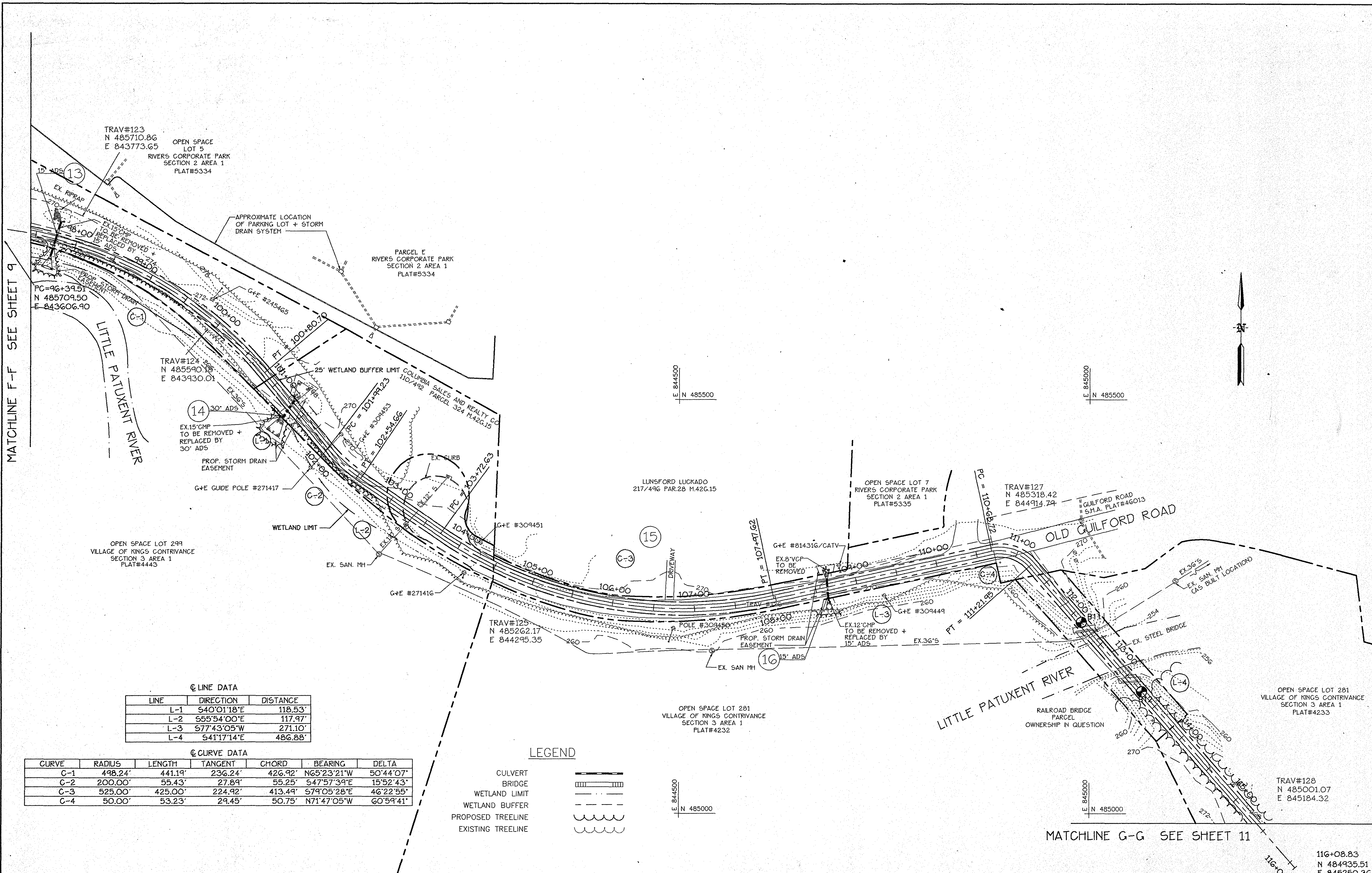
DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY: NO.	REVISION	DATE

SITE PLAN
STA 79+40.78 - STA 96+39.51

600' SCALE MAP NO. _____ BLOCK NO. _____

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
9 OF 20



MATCHLINE F-F SEE SHEET 9

MATCHLINE G-G SEE SHEET 11

TRAV#123
N 485710.86
E 843773.65
OPEN SPACE
LOT 5
RIVERS CORPORATE PARK
SECTION 2 AREA 1
PLAT#5334

PARCEL E
RIVERS CORPORATE PARK
SECTION 2 AREA 1
PLAT#5334

TRAV#124
N 485590.18
E 843930.01

LUNSFORD LUCKADO
217/496 PAR.28 M.426.15

OPEN SPACE LOT 7
RIVERS CORPORATE PARK
SECTION 2 AREA 1
PLAT#5335

TRAV#127
N 485318.42
E 844914.79

GUILFORD ROAD
S.H.A. PLAT#46013

OPEN SPACE LOT 299
VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 1
PLAT#4443

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 1
PLAT#4232

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 1
PLAT#4233

TRAV#128
N 485001.07
E 845184.32

116+08.83
N 484935.51
E 845250.36

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S40°01'18"E	118.53'
L-2	S55°54'00"E	117.97'
L-3	S77°43'05"W	271.10'
L-4	S41°17'14"E	486.88'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	498.24'	441.19'	236.24'	426.92'	N65°23'21"W	50°44'07"
C-2	200.00'	55.43'	27.89'	55.25'	S47°57'39"E	15°52'43"
C-3	525.00'	425.00'	224.92'	413.44'	S79°05'28"E	46°22'55"
C-4	50.00'	53.23'	29.45'	50.75'	N71°47'05"W	60°59'41"

LEGEND

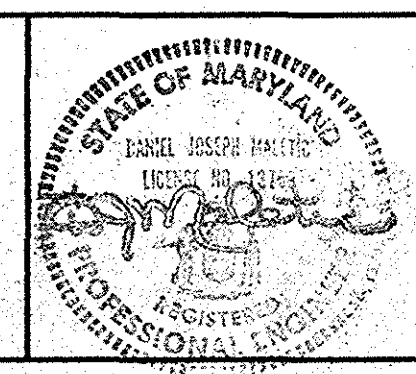
CULVERT	
BRIDGE	
WETLAND LIMIT	
WETLAND BUFFER	
PROPOSED TREELINE	
EXISTING TREELINE	

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF ENGINEERING DATE

CHIEF, BUREAU OF UTILITIES DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE

gpi
GREENMAN-PEDERSEN, INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94			
BY NO.		REVISION	DATE

SITE PLAN
96+39.51 - 116+08.83

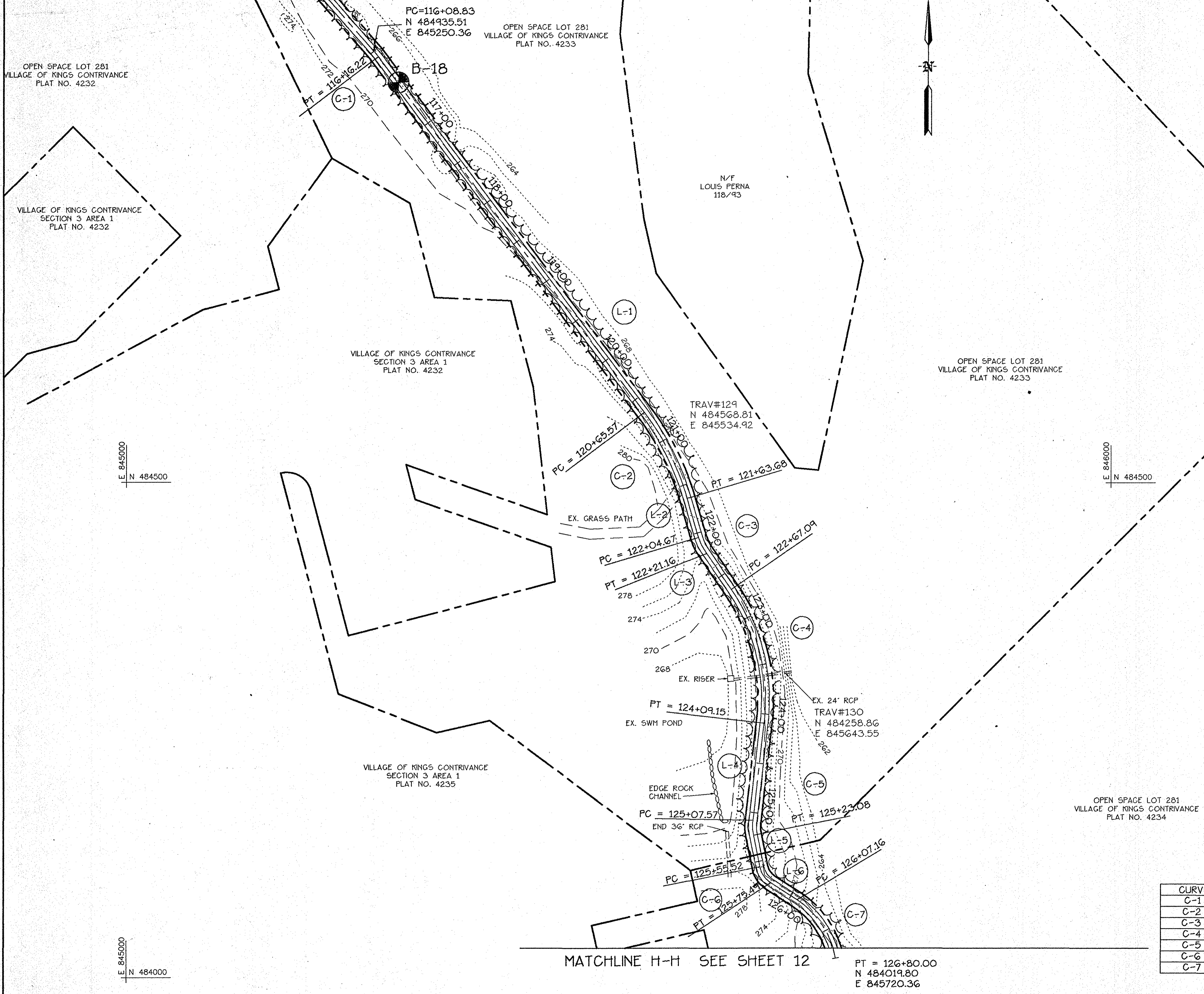
600' SCALE MAP NO. _____ BLOCK NO. _____

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'

SHEET
10 OF 20

MATCHLINE G-G SEE SHEET 10



LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S37°03'07"E	449.34'
L-2	S16°21'16"E	40.99'
L-3	S34°29'54"E	45.93'
L-4	S06°34'52"W	98.42'
L-5	S11°11'42"E	32.44'
L-6	S56°58'16"E	31.67'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	100.00'	7.39'	3.70'	7.39'	N39°10'10"W	04°14'08"
C-2	271.61'	98.12'	49.60'	97.58'	N26°42'11"W	20°41'51"
C-3	50.00'	16.49'	8.32'	16.42'	S25°48'10"E	18°53'48"
C-4	198.14'	142.06'	74.24'	139.04'	N13°57'31"W	41°04'46"
C-5	50.00'	15.51'	7.82'	15.45'	S02°18'25"E	17°46'34"
C-6	25.00'	19.97'	10.55'	19.45'	S34°04'59"E	45°46'34"
C-7	90.00'	72.84'	38.55'	70.87'	N33°47'10"W	46°22'12"

MATCHLINE H-H SEE SHEET 12

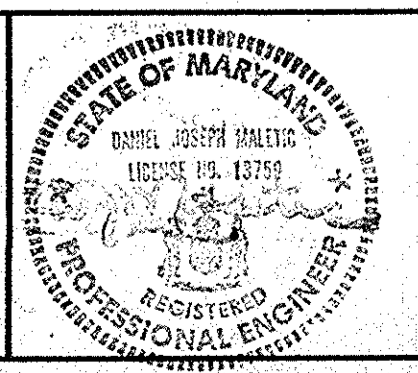
PT = 126+80.00
N 484019.80
E 845720.36

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF ENGINEERING DATE

CHIEF, BUREAU OF UTILITIES DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE

spi
GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP
DRN: AAP,RAK
CHK: DJM
DATE: 3/3/94

BY NO. REVISION DATE

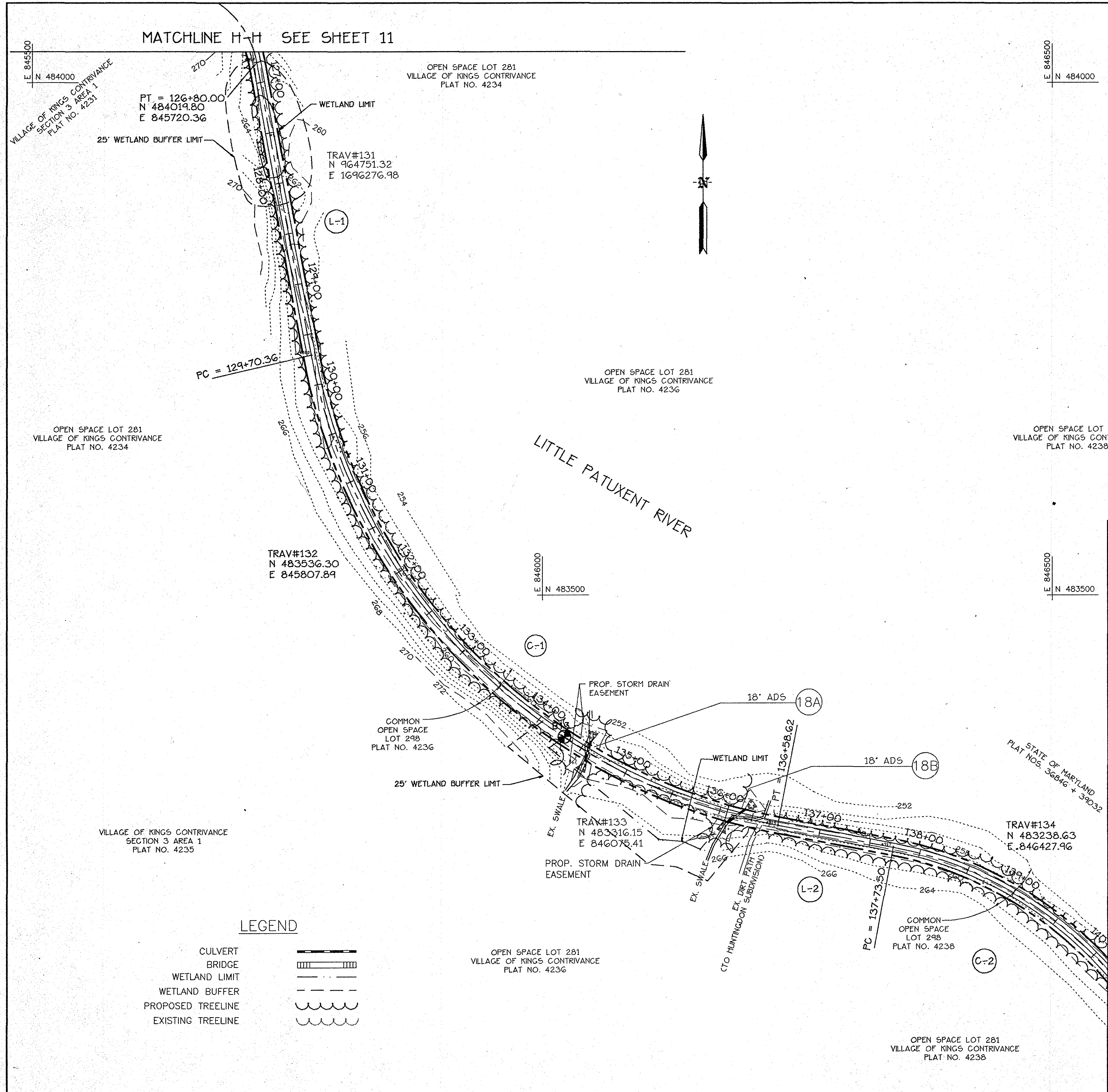
SITE PLAN
STA 116+08.83 - STA 126+80.00

600' SCALE MAP NO. BLOCK NO.

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'

SHEET
11 OF 20



MATCHLINE H-H SEE SHEET 11

MATCHLINE I-I SEE SHEET 13

PT = 126+80.00
N 484019.80
E 845720.36

WETLAND LIMIT

TRAV#131
N 964751.32
E 1696276.98

PC = 129+70.36

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
PLAT NO. 4234

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
PLAT NO. 4236

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
PLAT NO. 4238

LITTLE PATUXENT RIVER

TRAV#132
N 483536.30
E 845807.89

E 846000
N 483500

E 846500
N 483500

COMMON
OPEN SPACE
LOT 298
PLAT NO. 4236

25' WETLAND BUFFER LIMIT

VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 1
PLAT NO. 4235

TRAV#133
N 483316.15
E 846075.41

PROP. STORM DRAIN
EASEMENT

EX. SWALE
EX. DIRT PATH
CTO HUNTINGDON SUBDIVISION

18' ADS (18A)

18' ADS (18B)

STATE OF MARYLAND
PLAT NOS. 36846 + 37032

TRAV#134
N 483238.63
E 846427.96

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
PLAT NO. 4236

OPEN SPACE LOT 281
VILLAGE OF KINGS CONTRIVANCE
PLAT NO. 4238

PT = 141+45.68
N 483027.90
E 846620.41

LEGEND

- CULVERT
- BRIDGE
- WETLAND LIMIT
- WETLAND BUFFER
- PROPOSED TREELINE
- EXISTING TREELINE

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	N10°36'03"W	290.36'
L-2	N79°10'54"W	114.88'

CURVE DATA

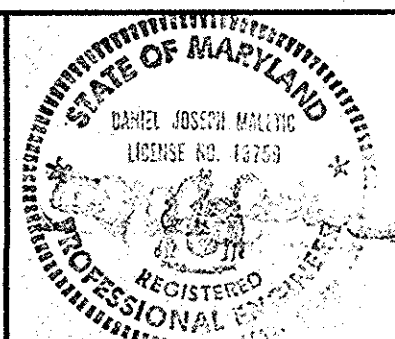
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	575.00'	688.26'	392.11'	647.91'	S44°53'31"E	68°34'55"
C-2	375.00'	372.18'	203.04'	357.09'	N50°45'01"W	56°51'55"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF ENGINEERING DATE
CHIEF, BUREAU OF UTILITIES DATE
CHIEF, LAND DEVELOPMENT DIVISION DATE



GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY	NO.	REVISION

SITE PLAN

STA 126+80.00 - STA 141+45.68

600' SCALE MAP NO. BLOCK NO.

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
12 OF 20

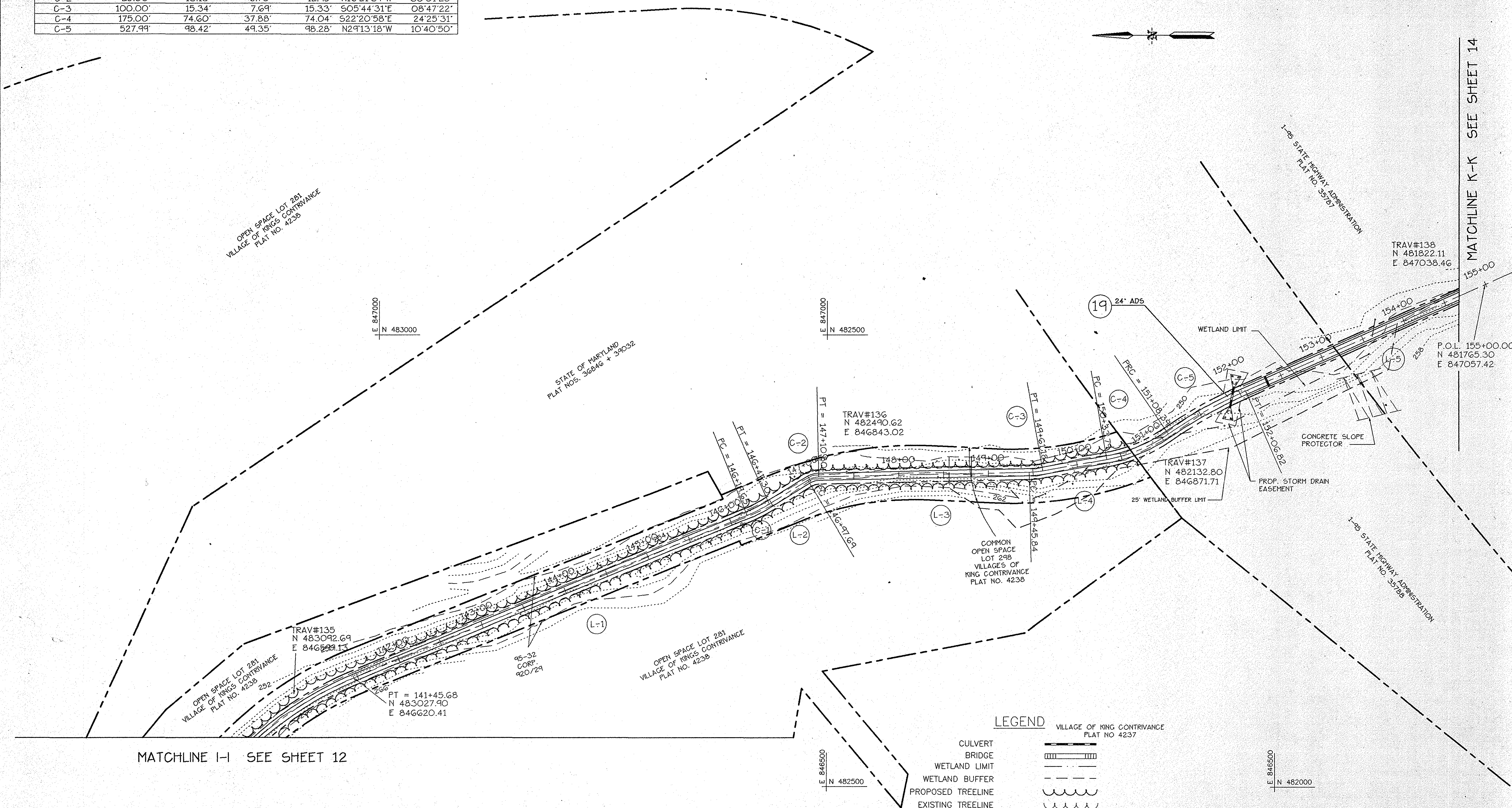
☉ LINE DATA

LINE	DIRECTION	DISTANCE
L-1	N22°19'04"W	473.97'
L-2	N31°22'18"W	50.39'
L-3	S01°20'50"E	235.05'
L-4	N10°08'12"W	72.61'
L-5	N23°52'53"W	336.15'

MARYLAND ROUTE 32
PLAT NOS. 35759 THRU 35762

☉ CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	175.00'	27.65'	13.86'	27.63'	S26°50'41"E	09°03'15"
C-2	25.00'	13.10'	6.70'	12.95'	N16°21'34"W	30°01'28"
C-3	100.00'	15.34'	7.69'	15.33'	S05°44'31"E	08°47'22"
C-4	175.00'	74.60'	37.88'	74.04'	S22°20'58"E	24°25'31"
C-5	527.99'	98.42'	49.35'	98.28'	N29°13'18"W	10°40'50"



MATCHLINE I-I SEE SHEET 12

MATCHLINE K-K SEE SHEET 14

LEGEND

CULVERT	
BRIDGE	
WETLAND LIMIT	
WETLAND BUFFER	
PROPOSED TREELINE	
EXISTING TREELINE	

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, LAND DEVELOPMENT DIVISION	DATE

gpi
GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94			
BY	NO.	REVISION	DATE

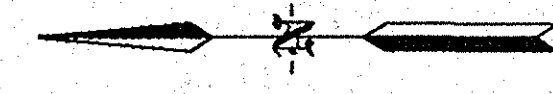
SITE PLAN
STA 141+45.68 - STA 155+00.00

600' SCALE MAP NO. _____ BLOCK NO. _____

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

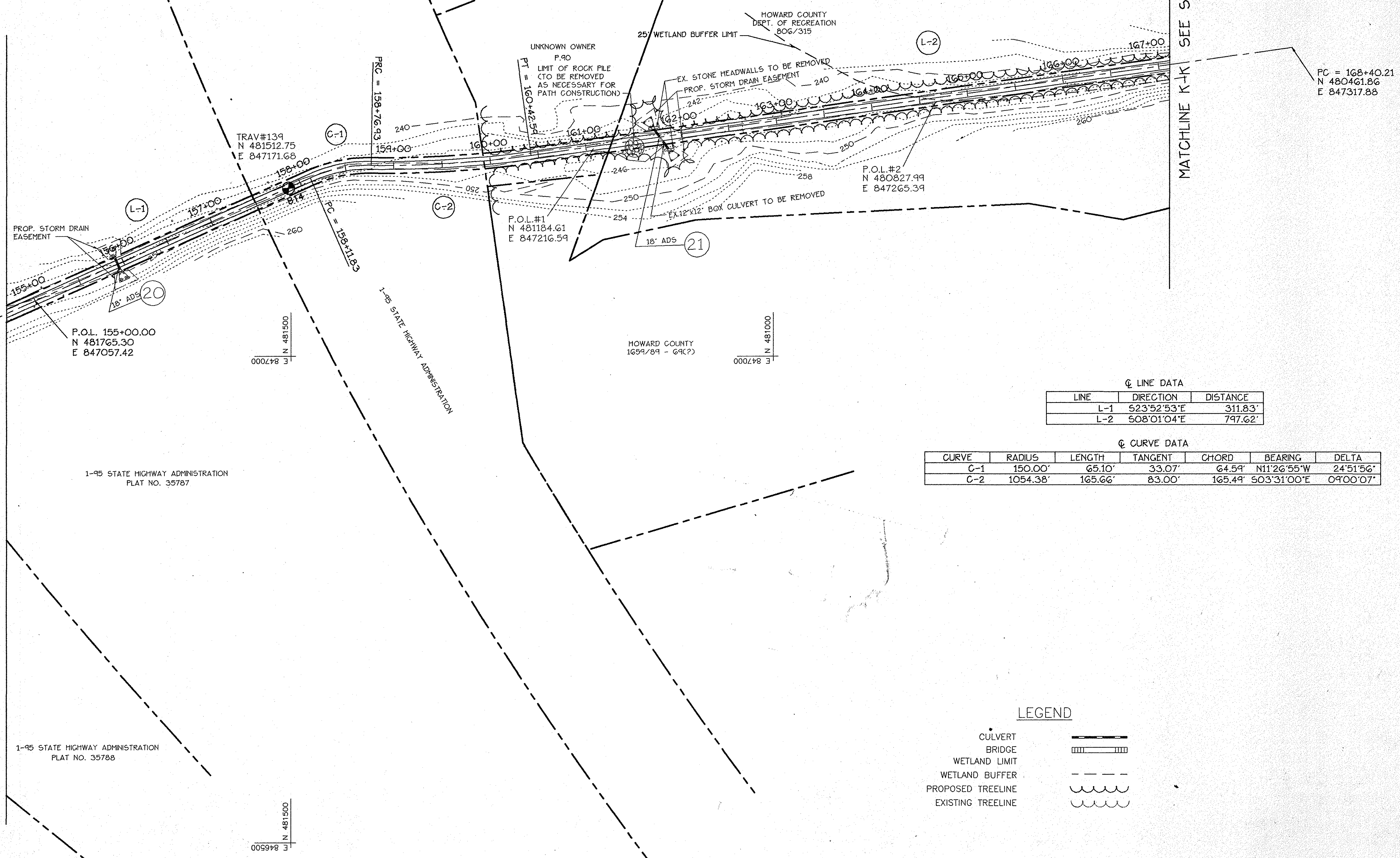
SCALE
1"=50'
SHEET
13 OF 20

HOWARD COUNTY
DEPT. OF RECREATION
809/471



MATCHLINE K-K SEE SHEET 15

MATCHLINE J-J SEE SHEET 13



LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S23°52'53"E	311.83'
L-2	S08°01'04"E	797.62'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	150.00'	65.10'	33.07'	64.59'	N11°26'55"W	24°51'56"
C-2	1054.38'	165.66'	83.00'	165.44'	S03°31'00"E	09°00'07"

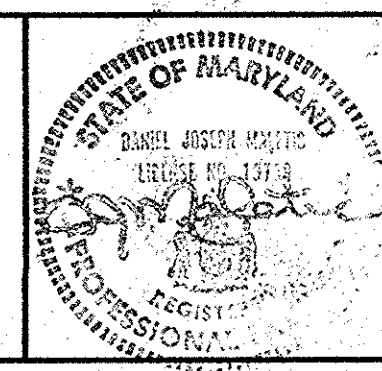
LEGEND

CULVERT	
BRIDGE	
WETLAND LIMIT	
WETLAND BUFFER	
PROPOSED TREELINE	
EXISTING TREELINE	

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND



GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY	NO.	REVISION

SITE PLAN
STA 155+00.00 - STA 168+40.21

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
14 OF 20

DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, LAND DEVELOPMENT DIVISION	DATE

N 480500
E 848000

N 479500
E 848000

N 479000
E 848000



MATCHLINE K-K SEE SHEET 14

MATCHLINE L-L SEE SHEET 16

HOWARD COUNTY, MARYLAND
795/414

HOWARD COUNTY, MARYLAND
893/458

RAYMOND SHENK
664/290

LITTLE PATUXENT RIVER

LITTLE PATUXENT RIVER

VOLLMERHAUSEN ROAD
EX. STONE WINGWALL

EX. DIRT PATH (WIDTH VARIES)
WETLAND LIMIT
PC = 168+40.21
N 480461.86
E 847317.88
TRAV #140
N 480473.33
E 847313.92
25' WETLAND BUFFER LIMIT
C-1
L-1
H.C. = 170+09.04

TRAV #141
N 480179.20
E 847318.77

HOWARD COUNTY, MARYLAND
806/315

GARY ALLEN AND FAITH SPEIGLE
549/720

MORRIS R. AND TASSIE COLLINS
294/96

LEGEND

- CULVERT
- BRIDGE
- WETLAND LIMIT
- WETLAND BUFFER
- PROPOSED TREELINE
- EXISTING TREELINE

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S05°14'57"W	76.21'
L-2	S14°33'38"E	585.15'
L-3	S24°35'28"W	114.46'

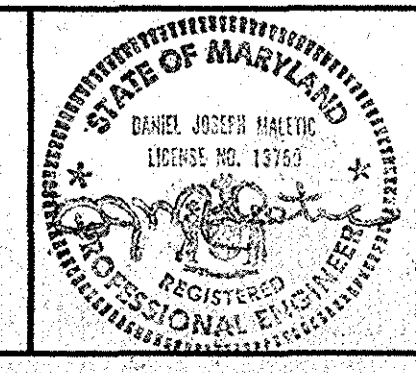
CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	400.00'	42.62'	46.52'	92.41'	N01°23'03"W	131°01'
C-2	381.09'	133.52'	66.55'	131.11'	S04°39'20"E	194°36'
C-3	300.00'	251.79'	134.13'	244.90'	N09°26'14"E	48°10'49"
C-4	200.00'	31.19'	15.63'	31.16'	S29°03'33"W	08°56'11"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND



GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY	NO.	REVISION

SITE PLAN

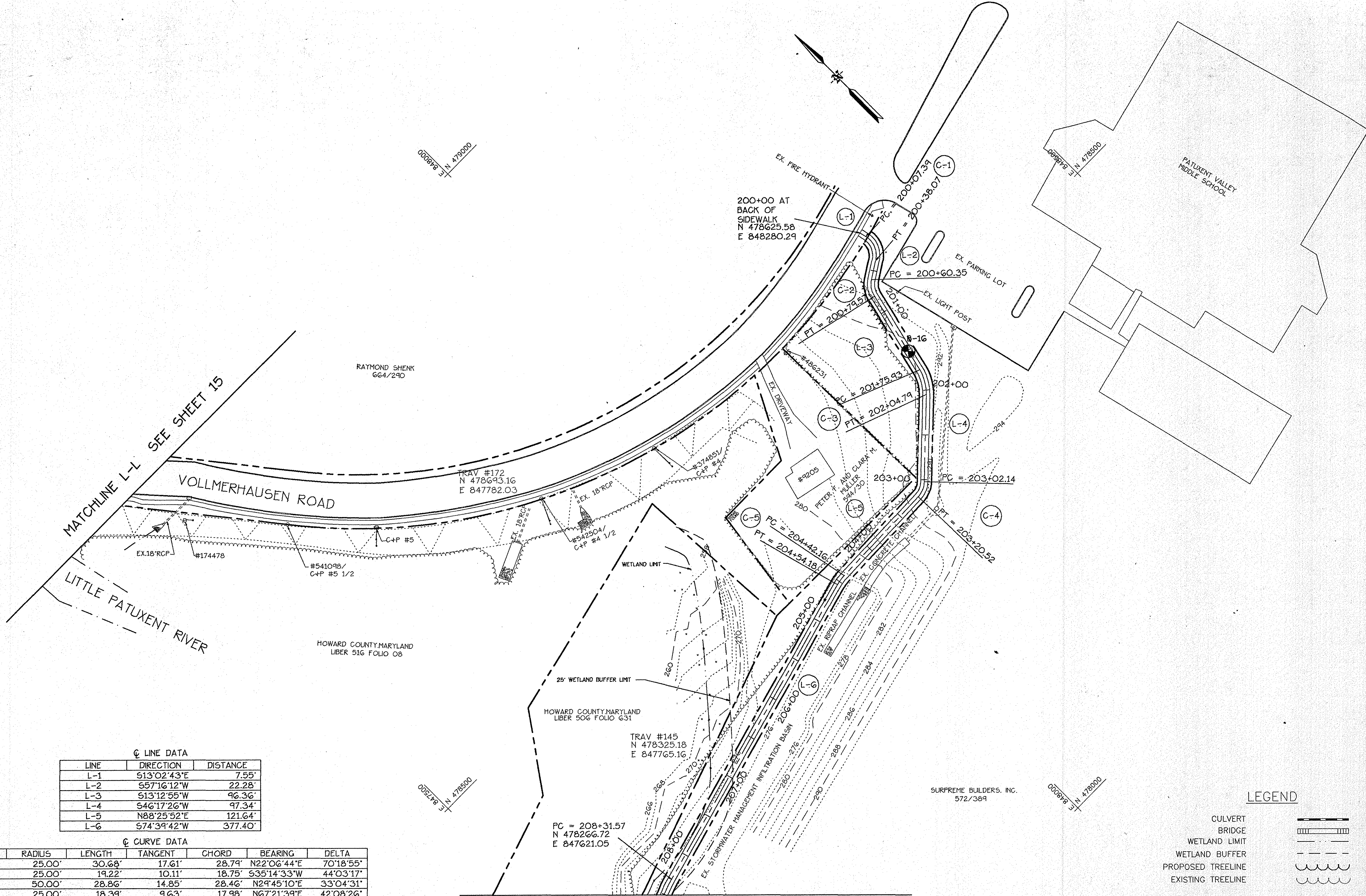
STA 168+40.21 - STA 181+25.18

600' SCALE MAP NO. _____ BLOCK NO. _____

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
15 OF 20

DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, LAND DEVELOPMENT DIVISION	DATE



MATCHLINE L-L SEE SHEET 15

MATCHLINE M-M SEE SHEET 17

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	S13°02'43"E	7.55'
L-2	S57°16'12"W	22.28'
L-3	S13°12'55"W	96.36'
L-4	S46°17'26"W	47.34'
L-5	N88°25'52"E	121.64'
L-6	S74°39'42"W	377.40'

CURVE DATA

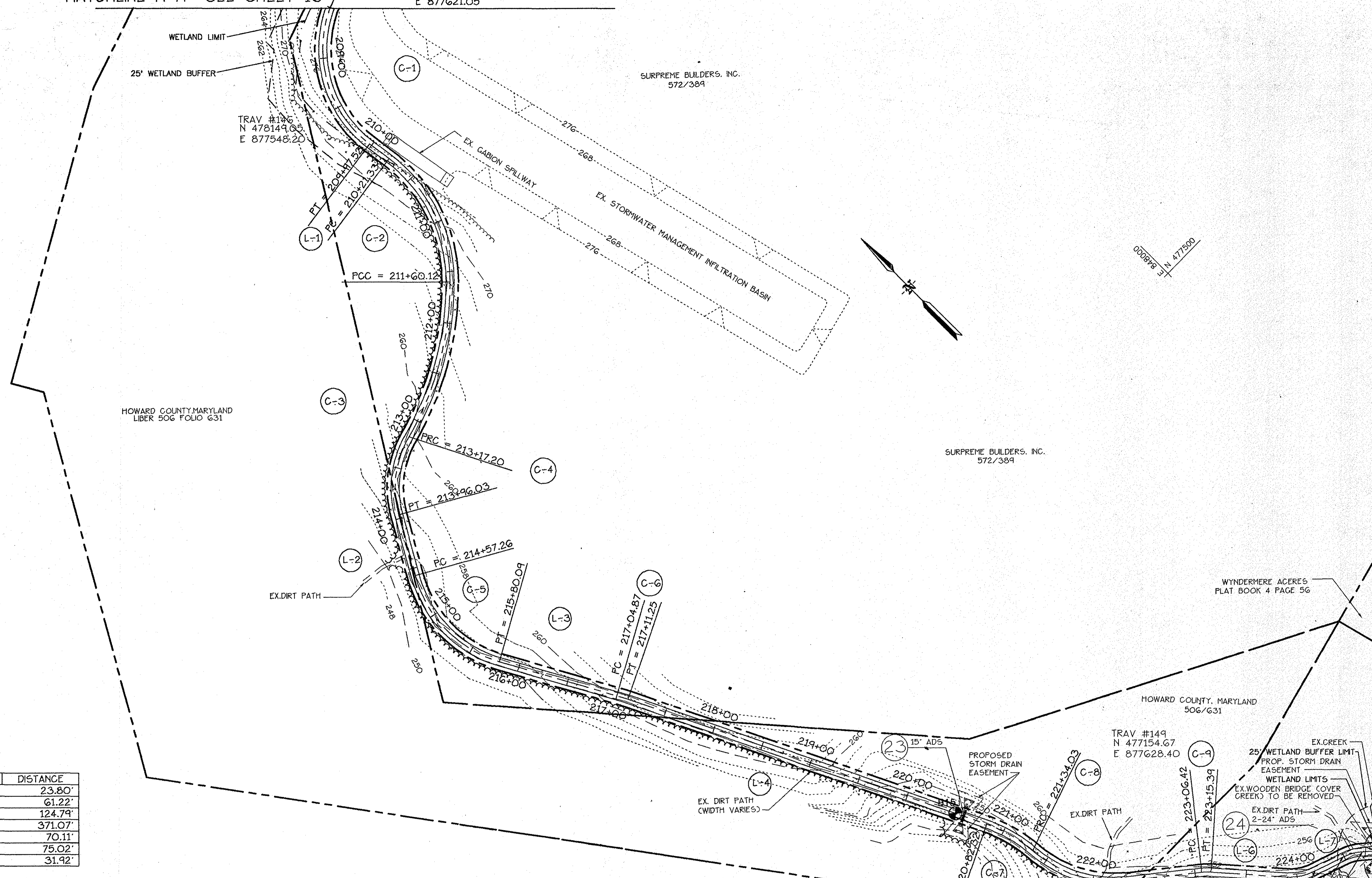
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	25.00'	30.68'	17.61'	28.79'	N22°06'44"E	70°18'55"
C-2	25.00'	19.22'	10.11'	18.75'	S35°14'33"W	44°03'17"
C-3	50.00'	28.86'	14.85'	28.46'	N29°45'10"E	33°04'31"
C-4	25.00'	18.39'	9.63'	17.98'	N67°21'39"E	42°08'26"
C-5	50.00'	12.02'	6.04'	11.99'	S81°32'47"W	13°46'09"

LEGEND

CULVERT	
BRIDGE	
WETLAND LIMIT	
WETLAND BUFFER	
PROPOSED TREELINE	
EXISTING TREELINE	

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	 GREENMAN-PEDERSEN INC. ENGINEERS/ARCHITECTS/PLANNERS LAUREL, MARYLAND		DES: KP DRN: AAP,RAK CHK: DJM DATE: 3/3/94	SITE PLAN STA 200+00.00 - STA 208+31.57	HOWARD COUNTY PATHWAY SYSTEM - PHASE 2 CAPITAL PROJECT N-3906JJ HOWARD COUNTY, MARYLAND	SCALE 1"=50' SHEET 16 OF 20
DIRECTOR OF PUBLIC WORKS _____ DATE _____ CHIEF, BUREAU OF UTILITIES _____ DATE _____	CHIEF, BUREAU OF ENGINEERING _____ DATE _____ CHIEF, LAND DEVELOPMENT DIVISION _____ DATE _____		BY _____ NO. _____ REVISION _____ DATE _____	600' SCALE MAP NO. _____ BLOCK NO. _____		

MATCHLINE M-M SEE SHEET 16
 PC = 208+31.57
 N 478266.72
 E 877621.05



LINE DATA

LINE	DIRECTION	DISTANCE
L-1	N08°01'16"W	23.80'
L-2	N29°49'23"E	61.22'
L-3	S28°49'27"E	124.79'
L-4	S25°54'07"E	371.07'
L-5	N51°37'03"W	70.11'
L-6	N41°20'07"W	75.02'
L-7	N71°21'44"W	31.92'

CURVE DATA

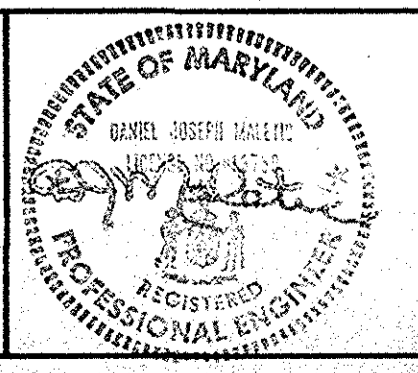
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	115.00'	165.95'	101.18'	151.93'	S33°19'13"W	82°40'58"
C-2	150.00'	138.79'	74.81'	133.89'	N18°29'09"E	53°00'49"
C-3	300.00'	157.08'	80.38'	155.29'	N59°59'34"E	30°00'00"
C-4	100.00'	78.84'	41.59'	76.81'	S52°24'29"W	45°10'10"
C-5	120.00'	122.83'	67.41'	117.54'	S00°29'58"W	58°38'50"
C-6	125.00'	6.38'	3.19'	6.37'	N27°21'47"W	02°55'20"
C-7	140.00'	51.71'	26.16'	51.42'	N15°19'12"W	21°09'51"
C-8	125.00'	102.28'	54.20'	99.45'	S28°10'39"E	46°52'47"
C-9	50.00'	8.97'	4.50'	8.96'	N46°28'35"W	10°16'56"
C-10	50.00'	26.20'	13.41'	25.90'	S56°20'55"E	30°01'37"
C-11	50.00'	19.87'	10.07'	19.74'	N59°58'30"W	22°46'26"

LEGEND

- CULVERT
- BRIDGE
- WETLAND LIMIT
- WETLAND BUFFER
- PROPOSED TREELINE
- EXISTING TREELINE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

spi
 GREENMAN-PEDERSEN INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 LAUREL, MARYLAND



DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY: NO.	REVISION	DATE

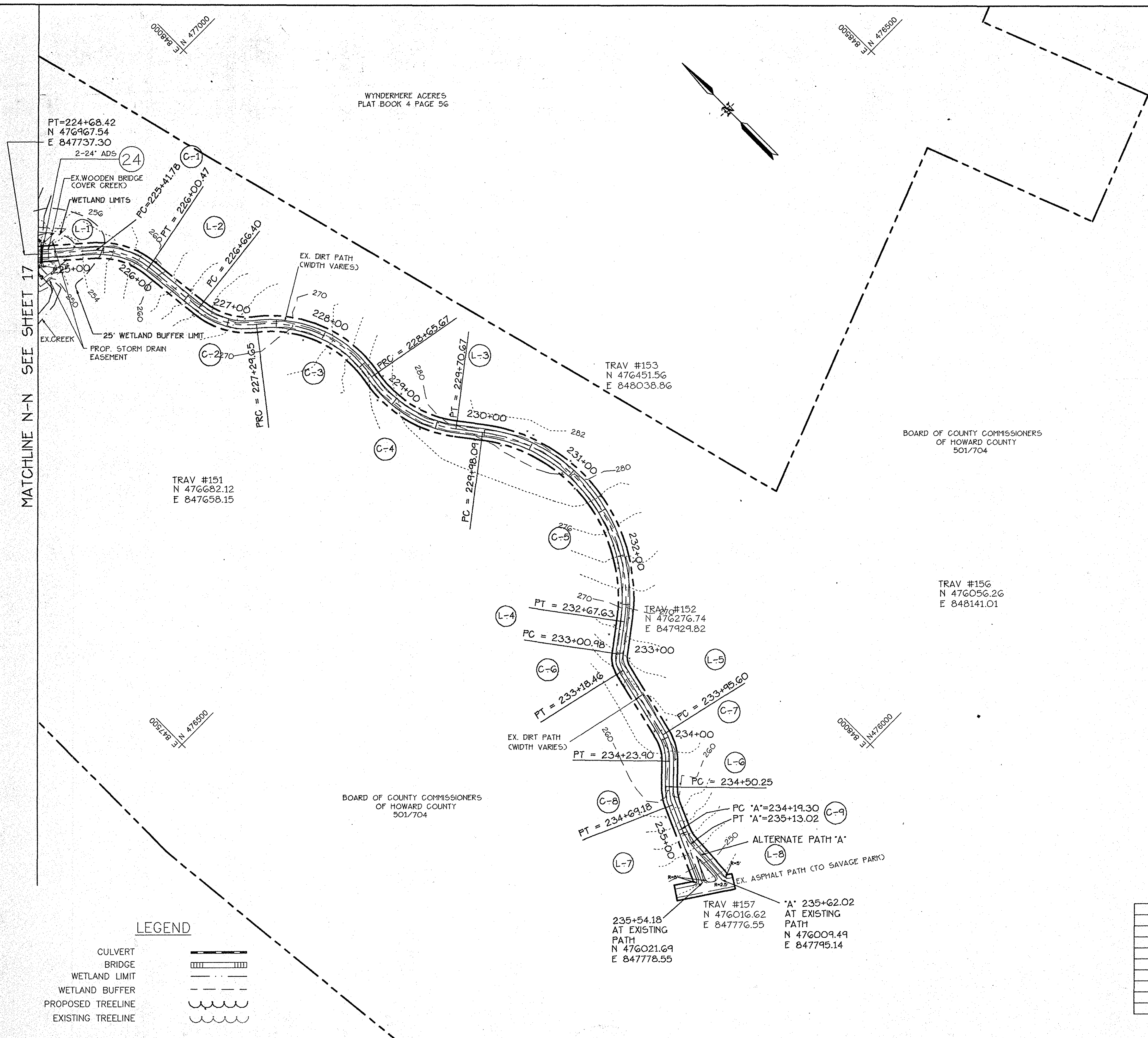
SITE PLAN
 STA 208+31.57 - STA 224+68.42

HOWARD COUNTY PATHWAY SYSTEM - PHASE 2
 CAPITAL PROJECT N-3906JJ
 HOWARD COUNTY, MARYLAND

SCALE
 1"=50'
 SHEET
 17 OF 20

DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, LAND DEVELOPMENT DIVISION	DATE

MATCHLINE N-N SEE SHEET 18



MATCHLINE N-N SEE SHEET 17

WYNDERMERE ACRES
PLAT BOOK 4 PAGE 56

BOARD OF COUNTY COMMISSIONERS
OF HOWARD COUNTY
501/704

BOARD OF COUNTY COMMISSIONERS
OF HOWARD COUNTY
501/704

LEGEND

CULVERT	
BRIDGE	
WETLAND LIMIT	
WETLAND BUFFER	
PROPOSED TREELINE	
EXISTING TREELINE	

LINE DATA

LINE	DIRECTION	DISTANCE
L-1	N48°35'17"W	73.36'
L-2	N06°32'59"W	65.93'
L-3	N37°37'27"W	27.42'
L-4	S53°13'23"W	33.35'
L-5	N13°10'06"E	77.14'
L-6	S45°35'47"W	26.35'
L-7	N23°54'33"E	85.00'
L-8 *A*	N03°36'20"E	49.00'

CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	80.00'	58.70'	30.74'	57.39'	N27°34'08"W	42°02'18"
C-2	80.00'	63.25'	33.38'	61.61'	S29°11'56"E	45°17'53"
C-3	125.00'	136.02'	75.63'	129.41'	N20°40'24"W	62°20'57"
C-4	125.00'	104.99'	55.82'	101.93'	S13°33'41"E	48°07'31"
C-5	170.00'	269.55'	172.53'	242.19'	N07°47'58"E	90°50'50"
C-6	25.00'	17.48'	9.11'	17.12'	S33°11'44"W	40°03'17"
C-7	50.00'	28.30'	14.54'	27.92'	N29°22'57"E	32°25'41"
C-8	50.00'	18.93'	9.58'	18.81'	S34°45'10"W	21°41'14"
C-9 *A*	50.00'	17.72'	8.95'	17.63'	S13°45'26"W	20°18'14"

TRAV #153
N 476451.56
E 848038.86

TRAV #151
N 476682.12
E 847658.15

TRAV #156
N 476056.26
E 848141.01

TRAV #152
N 476276.74
E 847929.82

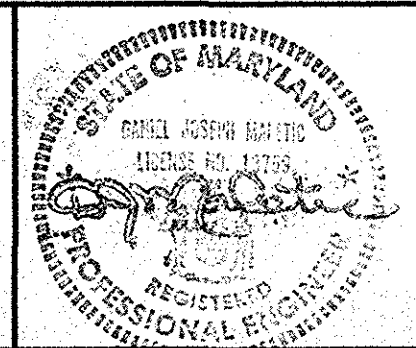
TRAV #157
N 476016.62
E 847776.55

A 235+62.02
AT EXISTING
PATH
N 476009.49
E 847795.14

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND



GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND

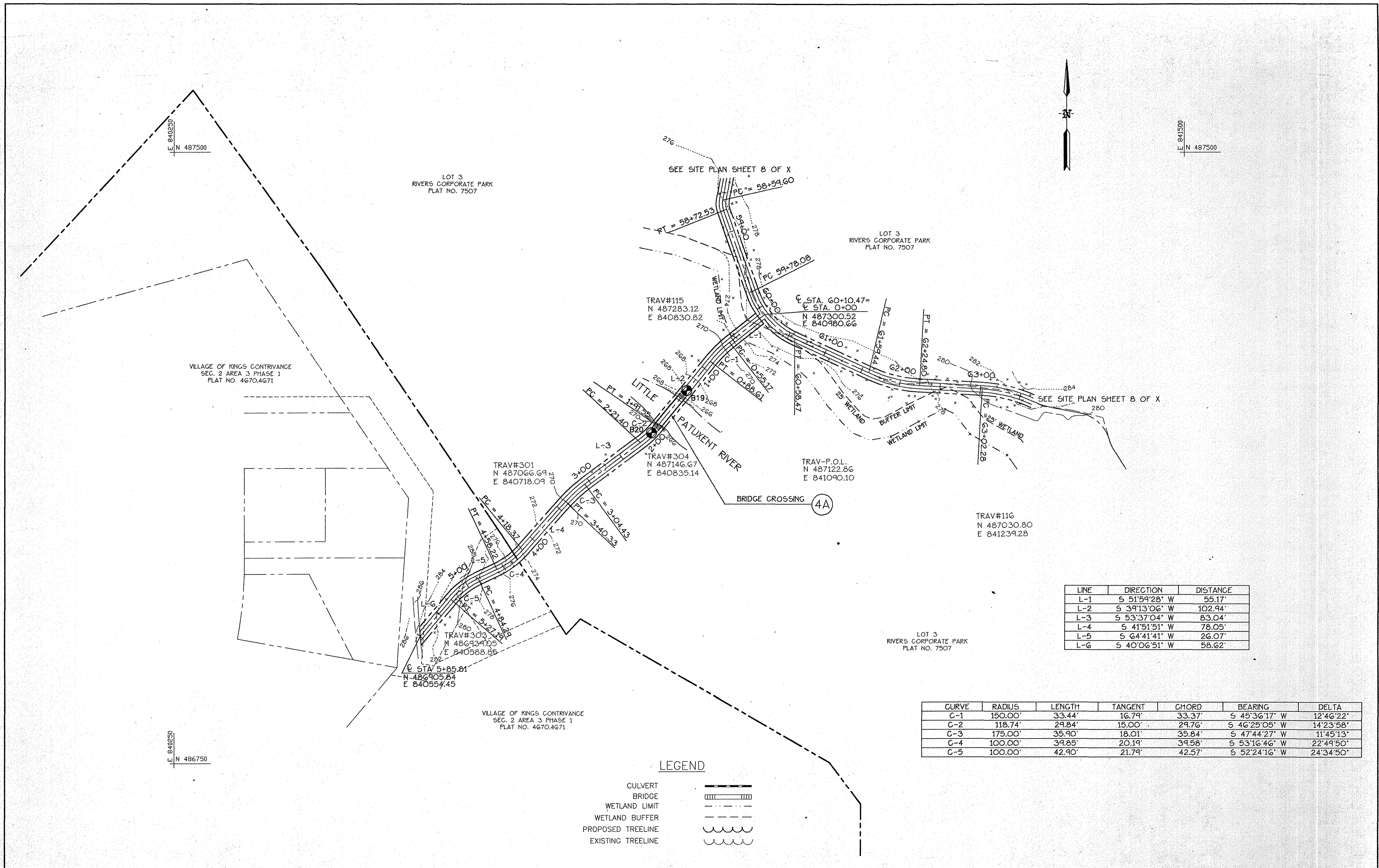


DES: KP			
DRN: AAP,RAK			
CHK: DJM			
DATE: 3/3/94	BY: NO.	REVISION	DATE

SITE PLAN
STA 224+68.42 - STA 235+54.17

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
18 OF 20



LINE	DIRECTION	DISTANCE
L-1	S 51°59'28" W	55.17'
L-2	S 39°13'06" W	102.94'
L-3	S 53°37'04" W	83.04'
L-4	S 41°51'51" W	78.05'
L-5	S 64°41'41" W	26.07'
L-6	S 40°06'51" W	58.62'

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	150.00'	33.44'	16.79'	33.37'	S 45°36'17" W	12°46'22"
C-2	118.74'	29.84'	15.00'	29.76'	S 46°25'05" W	14°23'58"
C-3	175.00'	35.90'	18.01'	35.84'	S 47°44'27" W	11°45'13"
C-4	100.00'	39.85'	20.19'	39.58'	S 53°16'46" W	22°49'50"
C-5	100.00'	42.90'	21.79'	42.57'	S 52°24'16" W	24°34'50"

LEGEND

- CULVERT
- BRIDGE
- WETLAND LIMIT
- WETLAND BUFFER
- PROPOSED TREELINE
- EXISTING TREELINE

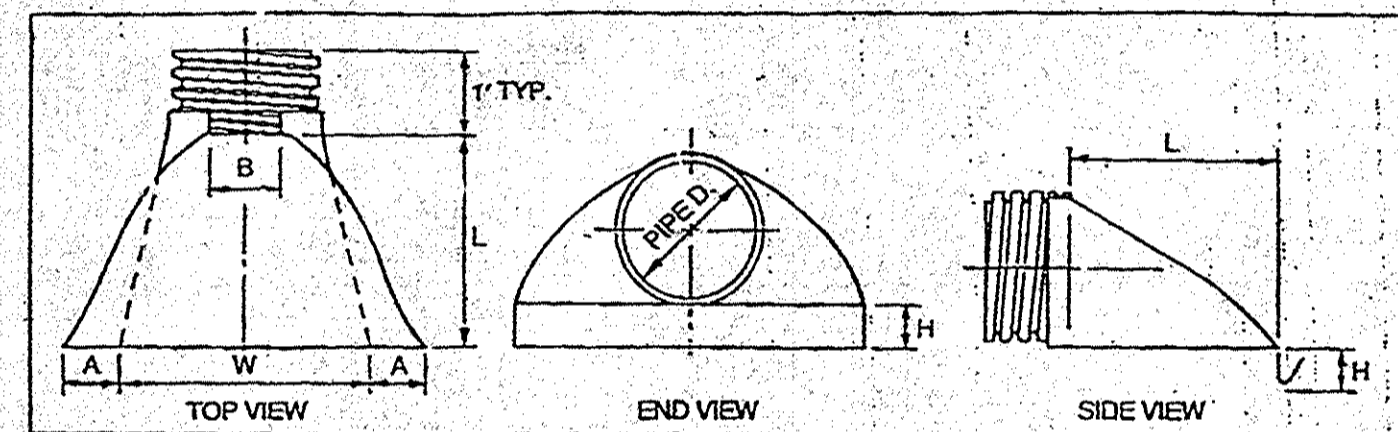
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		 GREENMAN - PEDERSEN INC. ENGINEERS/ARCHITECTS/PLANNERS LAUREL, MARYLAND		DES: KP						SITE PLAN STA 0+00 - STA 5+85.81	HOWARD COUNTY PATHWAY SYSTEM - PHASE 2 CAPITAL PROJECT N-3906JJ HOWARD COUNTY, MARYLAND	SCALE 1" = 50' SHEET 19 OF 20
DIRECTOR OF PUBLIC WORKS	DATE			CHIEF, BUREAU OF ENGINEERING	DATE	DRN: C.INER						
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, LAND DEVELOPMENT DIVISION	DATE	CHK: DJM								
				DATE: 1/3/95	BY: NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.			

Str. No.	Inv. A	Inv. B	DIAMETER	SLOPE	K	R/W	N
1	288.01	286.95	15"	5.03%	20'	6' / 8'	1
2	282.58	281.68	24"	5.00%	18'	10' / 12'	1
4	275.54	275.16	18"	2.11%	18'	9.5' / 11'	1
7A	271.64	271.48	18"	0.75%	22'	7.0' / 10.0'	1
8	269.91	269.04	18"	3.35%	26'	9.5' / 11.0'	1
9	266.45	266.18	15"	1.50%	18'	9.0' / 10.5'	1
10	262.82	262.58	15"	1.33%	18'	12.0' / 16.0'	1
11	268.05	266.97	24"	2.92%	37'	16.0' / 18.0'	1
12*	262.40	261.40	60" x 72"	4.35%	23'	30.0' / 42.0'	2
13	265.28	263.41	15"	4.25%	44'	13.0' / 14.5'	1
14	266.0	265.14	30"	3.44%	25'	16.0' / 18.5'	1
16	267.64	266.36	15"	4.74%	27'	9.0' / 10.0'	1
18A	256.88	256.00	18"	4.39%	20'	7.0' / 10.0'	1
18B	259.30	256.73	18"	11.18%	23'	7.0' / 10.0'	1
19	253.50	250.90	24"	10.8%	24'	10.0' / 12.0'	1
20	242.66	242.18	18"	4.00%	18'	10.0' / 11.5'	1
21	243.31	242.82	18"	1.88%	26'	9.5' / 11.0'	1
22	234.19	233.71	15"	2.00%	24'	9.0' / 20.5'	2
23	244.45	244.05	15"	2.22%	18'	9.0' / 10.5'	1
24	253.05	252.51	24"	3.00%	18'	10.0' / 24.0'	2

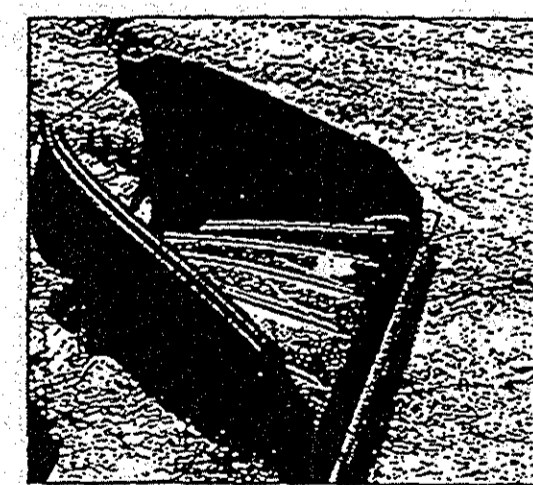
NOTES:

- Inverts are to be adjusted as deemed necessary by the Contractor to match existing grades.
 - All storm drain culverts to be ADS-N12 unless otherwise noted.
 - Storm drain culvert #12 to be RCP (shop drawings to be supplied by the Contractor and approved by Howard County DPW).
- * See detail this sheet.

ADS End Section Dimensions:



Pipe Diameter	Part No.	Dimensions (inches)				
		A (1±)	B MAX	H (1±)	L (1/2±)	W (2±)
12" and 15"	1210 NP	6.5	10	6.5	25	29
18"	1810 NP	7.5	15	6.5	32	35
24"	2410 NP	7.5	18	6.5	36	45
30"	3010 NP	10.5	NA	7.0	53	68
36"	3610 NP	10.5	NA	7.0	53	68

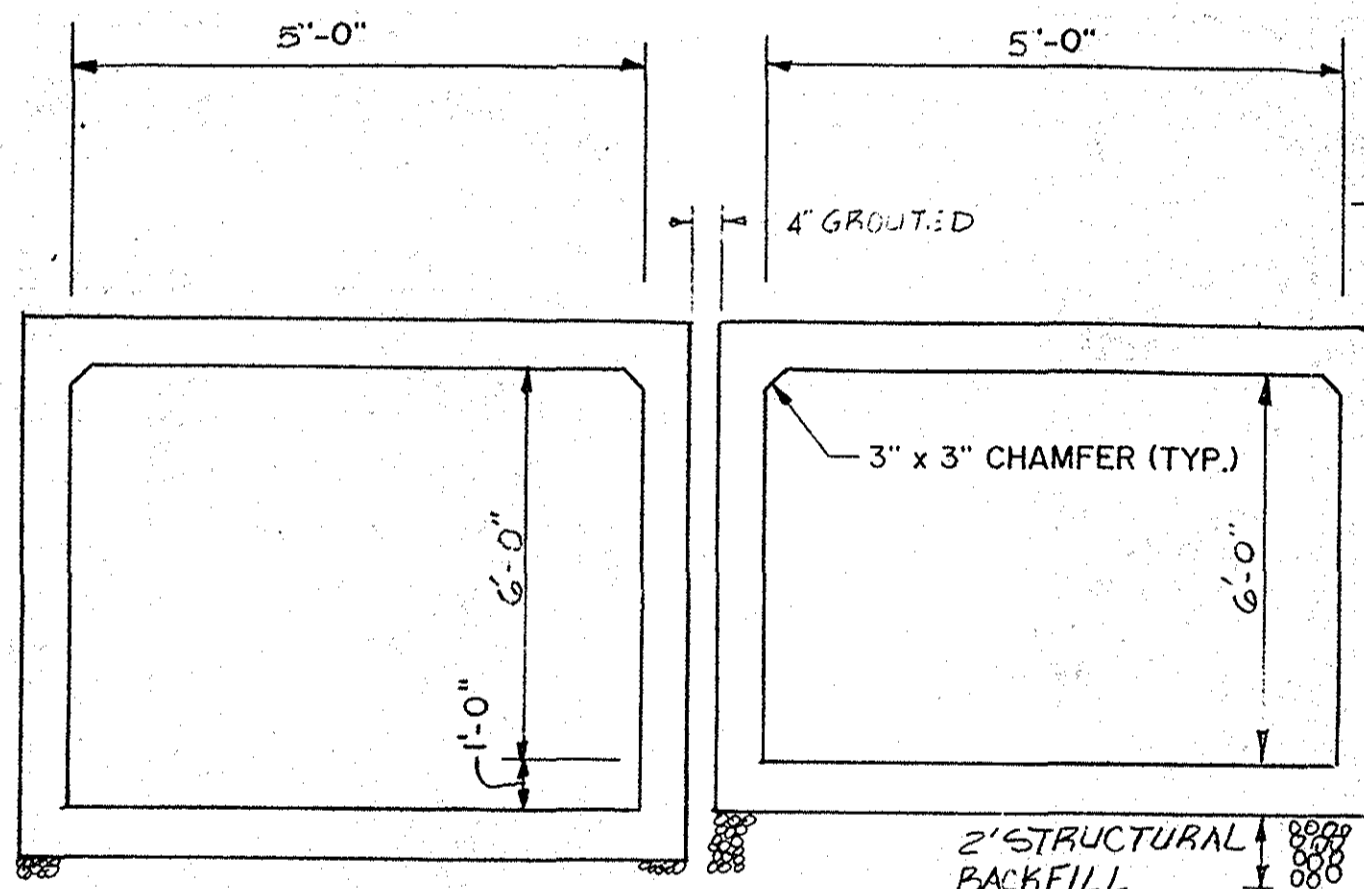


**ADS END SECTION
DETAIL**

STR. No.	END SECTION A		END SECTION B	
	STATION	OFFSET	STATION	OFFSET
1	0+64	6'	0+70	6'
2	2+05	6'	2+05	6'
4	12+65	6'	12+67	6'
7A	31+24	9'	31+37	9'
8	47+47	7'	47+28	8'
9	68+17	6'	68+20	6'
10	71+14	6'	71+13	6'
11	88+42	17'	88+39	20'
12	95+16	11'	95+23	12'
13	97+76	22'	97+73	22'
14	101+30	6'	101+36	18'
16	108+66	11'	108+62	16'
18A	134+60	9'	134+55	11'
18B	136+10	9'	136+24	9'
19	151+83	10'	151+97	10'
20	155+94	6'	155+94	6'
21	161+85	13'	161+73	9'
22	180+99	11'	181+04	10'
23	220+58	6'	220+58	6'
24				

NOTES:

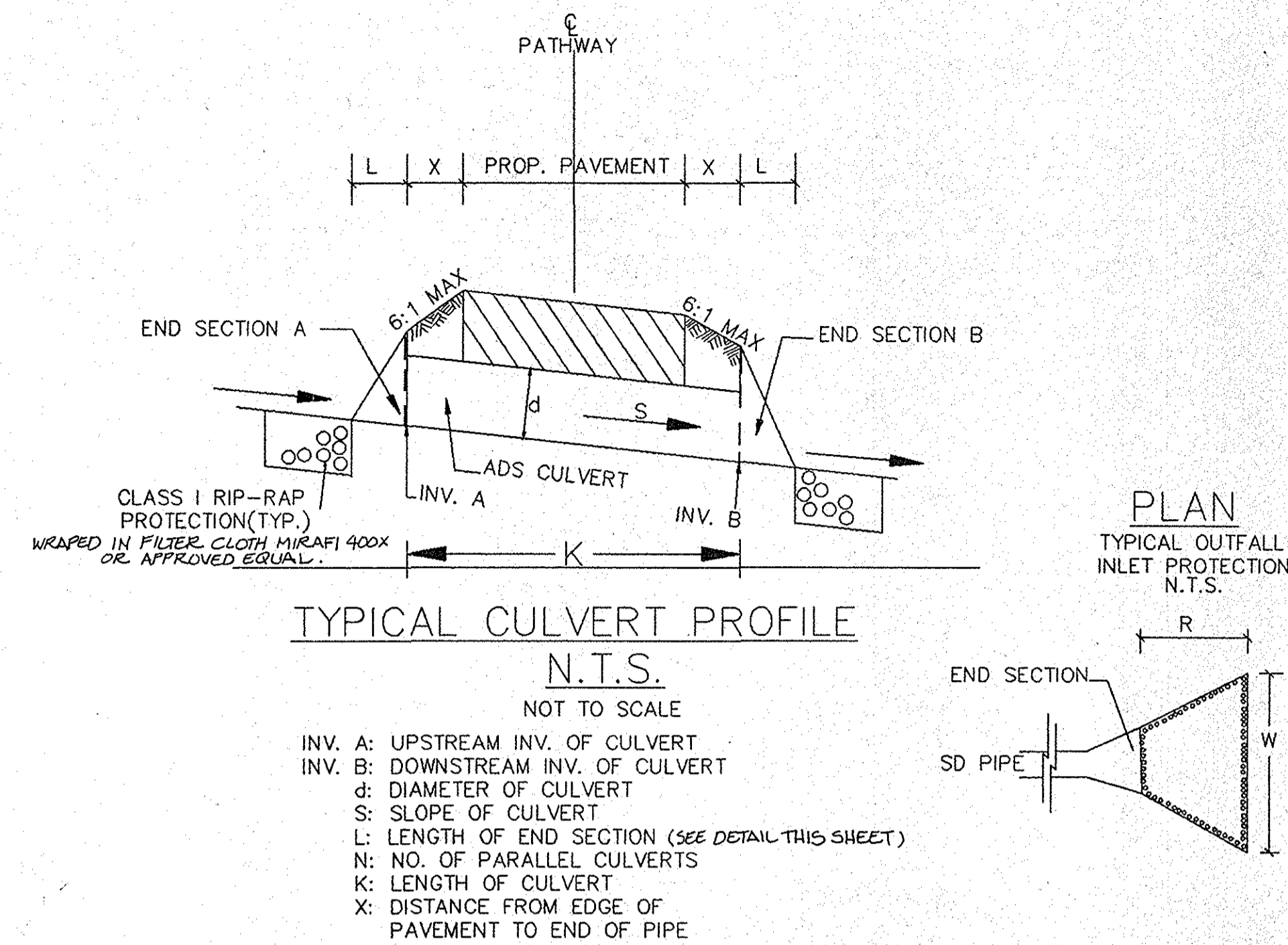
- All stations and offsets are within + or - 3'. Adjustments to be made in the field as necessary to accommodate existing conditions.



**TYPICAL SECTION STR. NO. 12
PRECAST TWIN BOX CULVERTS
NOT TO SCALE**

NOTES:

- CONTRACTOR SHALL SUBMIT DESIGN COMPUTATIONS AND SHOP DRAWINGS DULY SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER CURRENTLY PRACTICING IN THE STATE OF MARYLAND, AND HAVE THEM APPROVED BY THE HOWARD COUNTY DPW.
- A 7" WALL THICKNESS HAS BEEN ASSUMED. CONTRACTOR HAS THE OPTION TO USE A LARGER WALL THICKNESS PROVIDED THE AFFECTED COMPONENTS OF THE CULVERT ARE REDESIGNED AND APPROVED THROUGH THE SHOP DRAWINGS REVIEW PROCESS. END SECTIONS DESIGN TO BE PART OF THE CULVERT DESIGN.

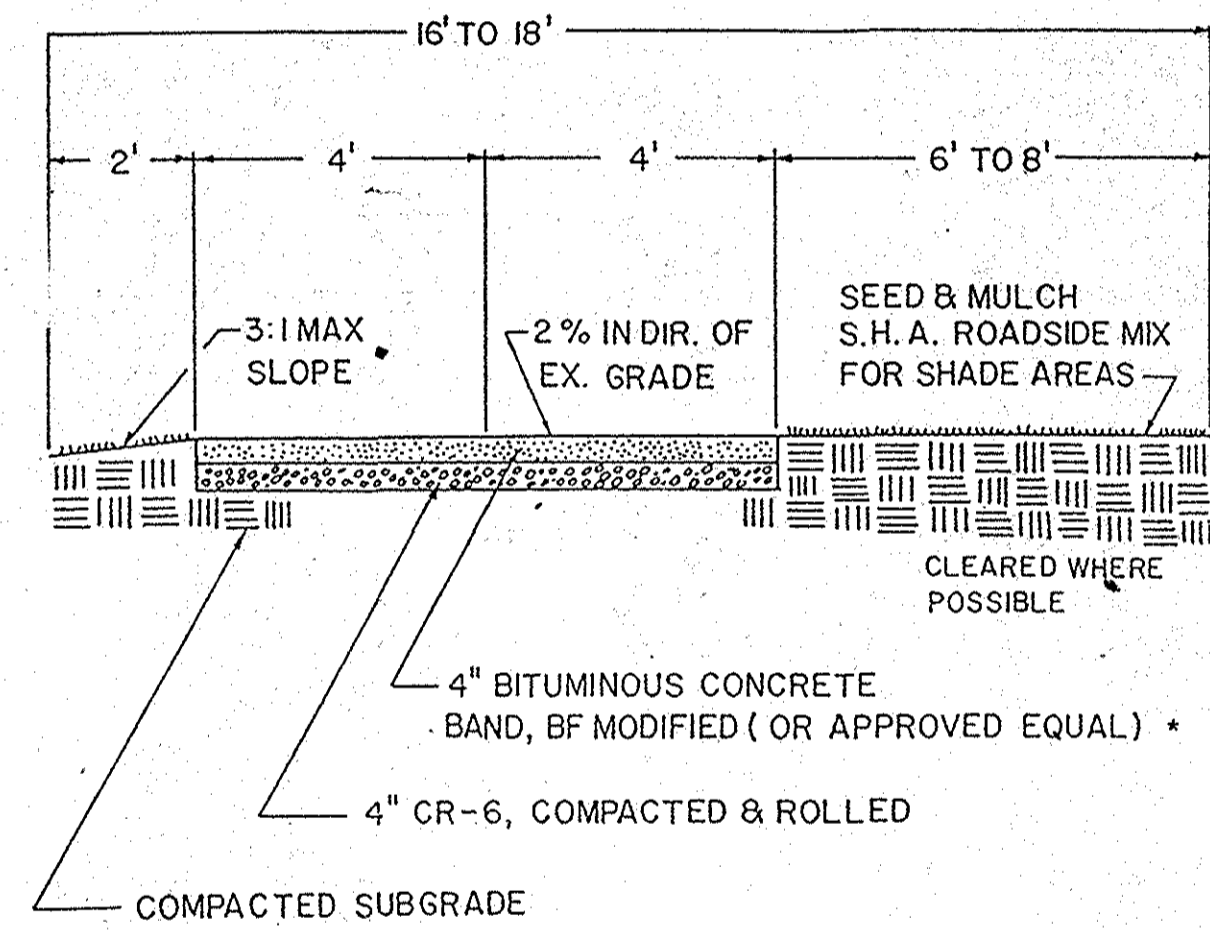


**TYPICAL CULVERT PROFILE
N.T.S.**

- INV. A: UPSTREAM INV. OF CULVERT
INV. B: DOWNSTREAM INV. OF CULVERT
d: DIAMETER OF CULVERT
S: SLOPE OF CULVERT
L: LENGTH OF END SECTION (SEE DETAIL THIS SHEET)
N: NO. OF PARALLEL CULVERTS
K: LENGTH OF CULVERT
X: DISTANCE FROM EDGE OF PAVEMENT TO END OF PIPE

NOTES:

- CONTRACTOR TO INSURE 1' OF COVER (MIN.) FOR ALL CULVERTS.
- CONTRACTOR TO INSURE POSITIVE DRAINAGE TO ALL INLET STRUCTURES.



**TYPICAL SECTION
NO SCALE**

SEQUENCE OF CONSTRUCTION

- Contact the Howard County Sediment Control Inspector 48 hours prior to start of work. Inform him of the starting date.
- Stabilized construction entrances to be installed at all access points to the path.
- Contractor to construct the path in 100 l.f. segments. Each segment to be stabilized immediately and prior to the start of the next segment.
- Wood chips from cleared trees to be used to stabilize the disturbed areas in the wooded sections of the path. Seed, mulch and curlex to be used on the sections of the path exposed to sunlight.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE



GREENMAN-PEDERSEN INC.
ENGINEERS/ARCHITECTS/PLANNERS
LAUREL, MARYLAND



DES: A.T.				
DRN: A.T.				
CHK: B.B.				
DATE: 12/23/94	BY	NO	REVISION	DATE

DETAIL SHEET

HOWARD COUNTY PATHWAY
SYSTEM - PHASE 2
CAPITAL PROJECT N-3906JJ
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
20 OF 20