

BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)
 ZONED: RR-DEO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

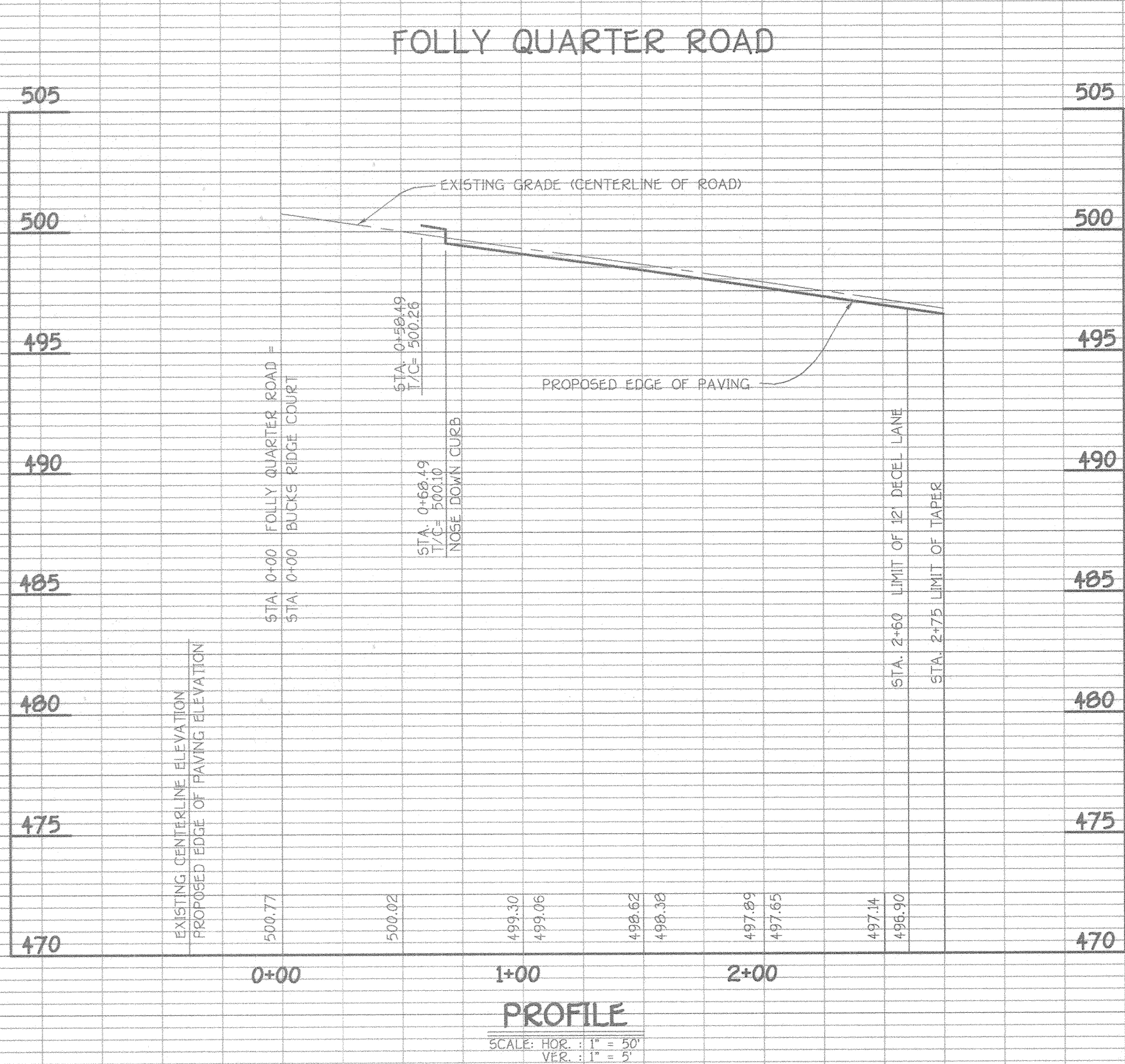
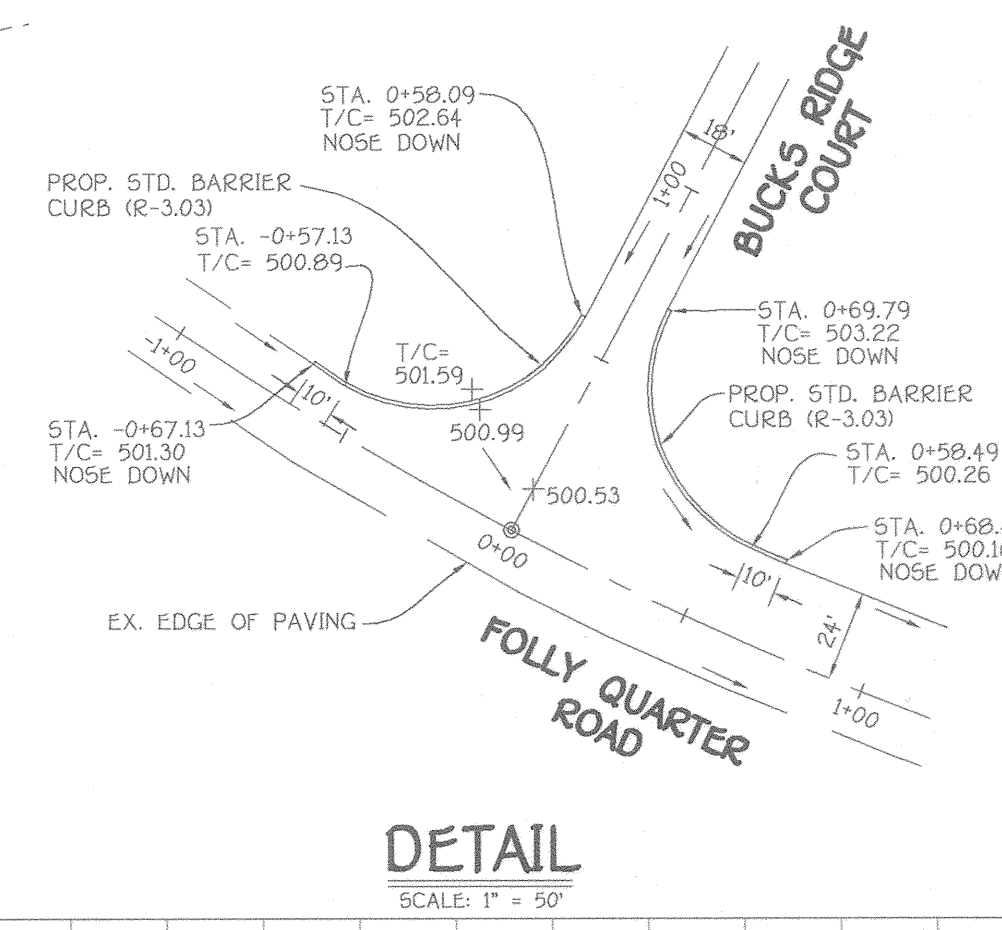
FOLLY QUARTER ROAD
 ROAD WIDENING PLAN AND PROFILE

OWNERS
 J. DAVID MULLINX
 ELIZABETH C. MULLINX
 1422 HOWARD ROAD
 DAYTON, MARYLAND, 21036

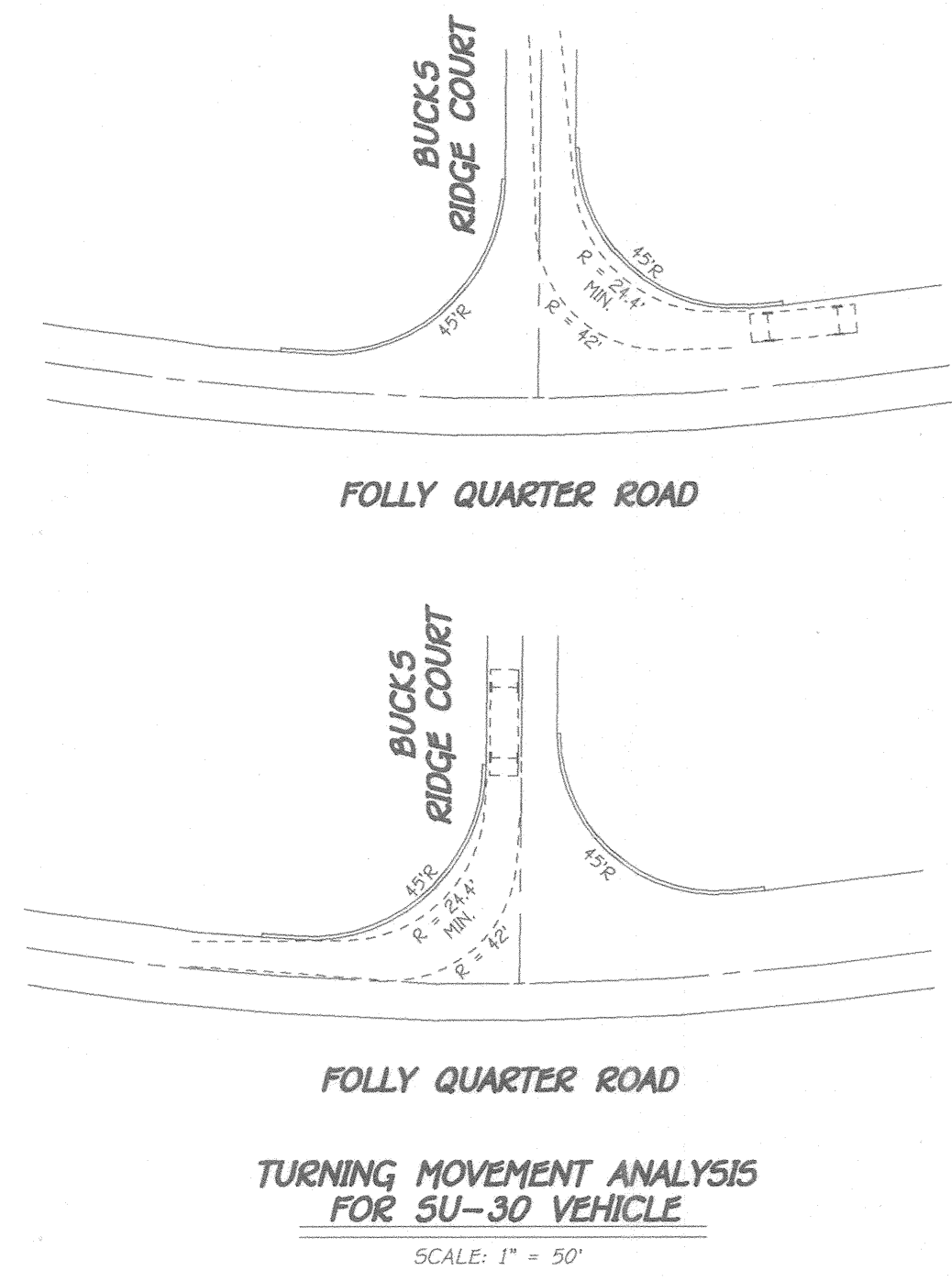
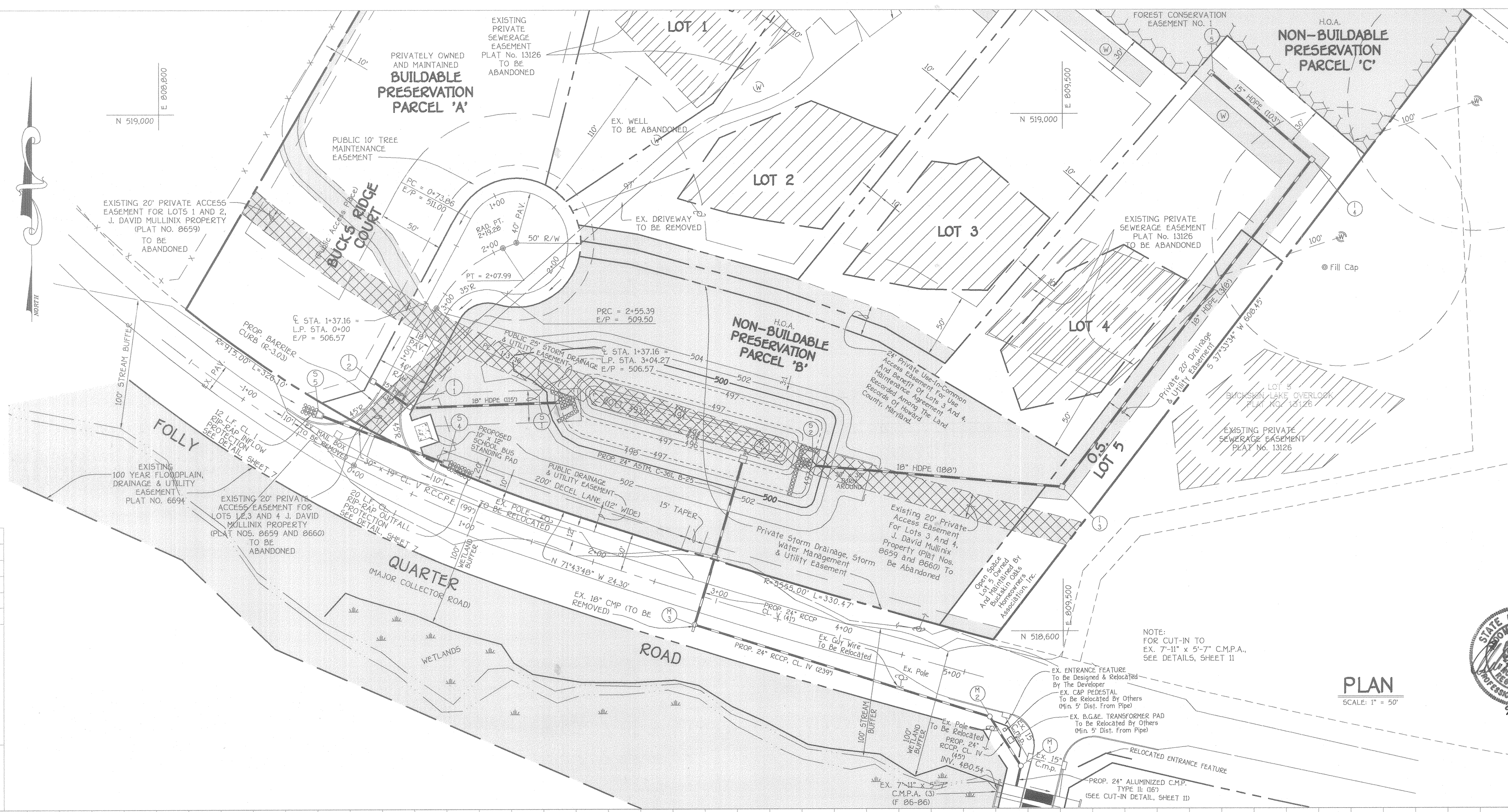
DEVELOPER
 J. THOMAS SCHVENER INC.
 8800 CENTRE PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21045

SCALE: AS SHOWN
DATE: JUNE 20, 2005
DWG. NO.: 2 OF 13
DES.: R.A.I. **DRN.:** J.C.L. **CHK.:** A.M.V.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10775 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 410.461-2055



CURVE DATA
BUCKS RIDGE COURT
 STA. 1+37.16 TO STA. 2+07.99
 RADIUS = 101.44'
 ARC LENGTH = 70.83'
 TAN. = 36.93'
 DELTA = 40°00'33"
 CHORD = 447°53'52"E. 69.40'



REVISIONS		
NO.	DESCRIPTION	DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Cindy Hamrick</i> CHIEF, DIVISION OF LAND DEVELOPMENT	12/1/05 DATE
<i>Chris Dammann</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	12/16/05 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>William F. Umbach</i> CHIEF, BUREAU OF HIGHWAYS	12-1-05 DATE

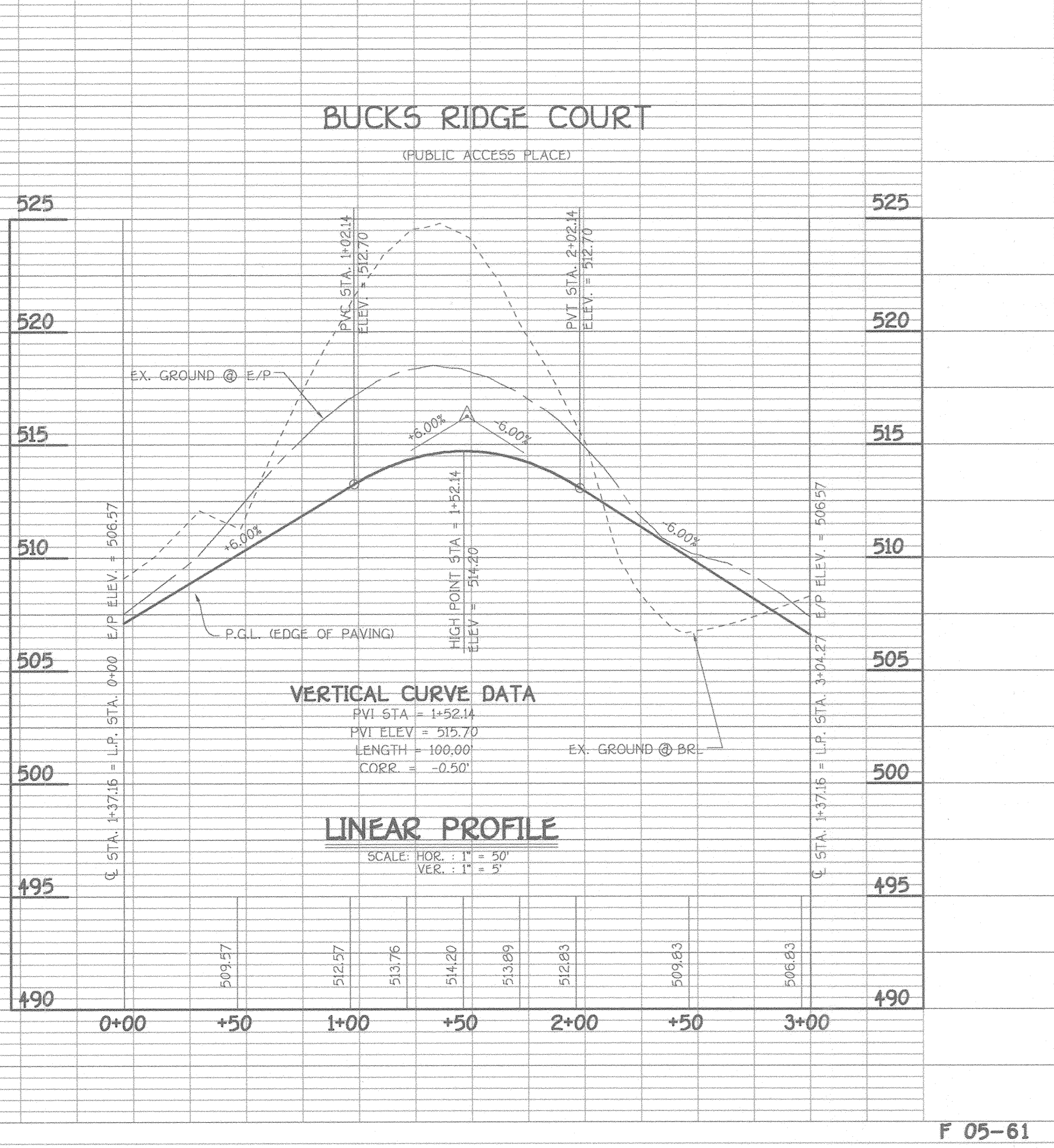
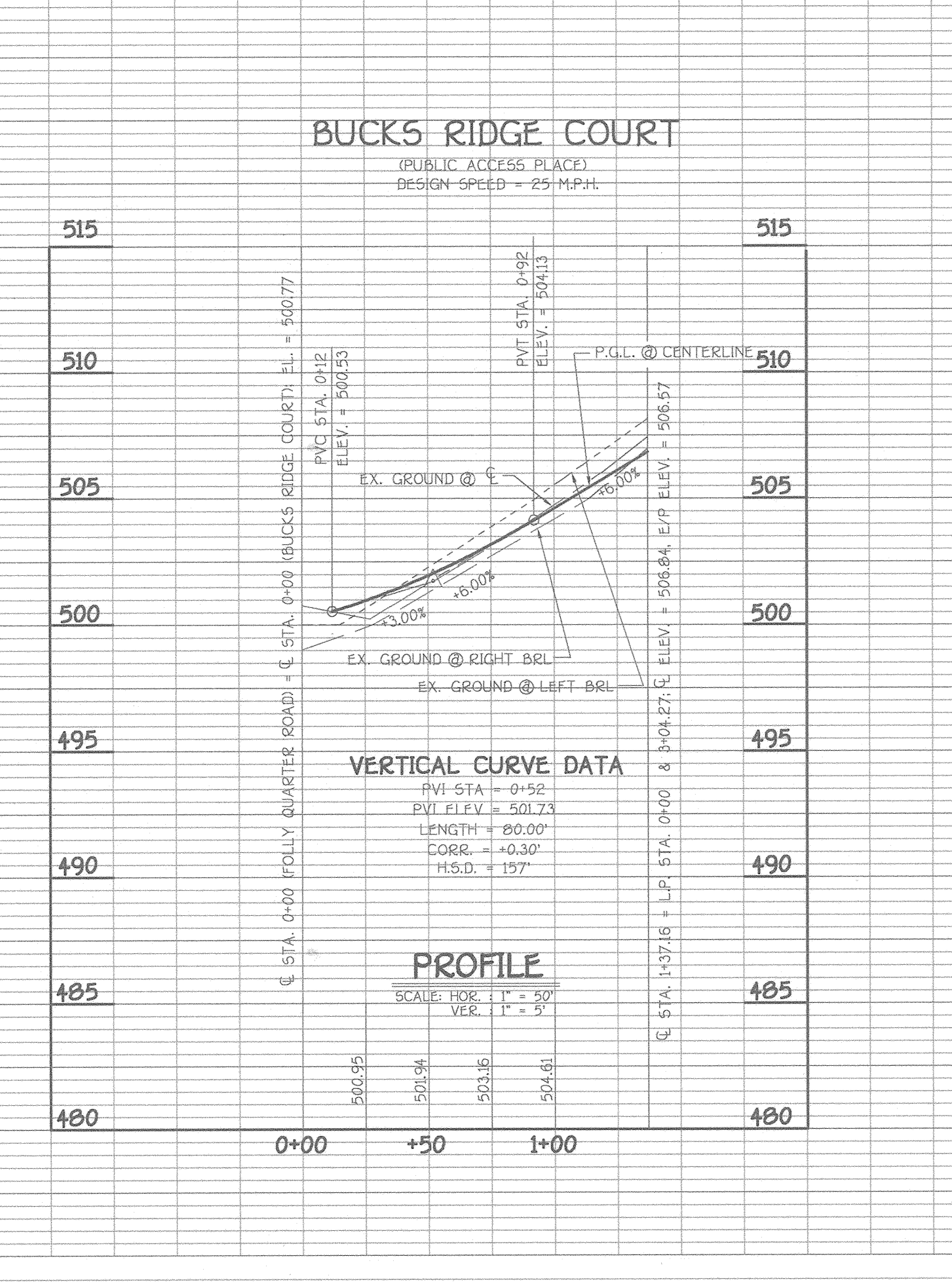
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(A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)
 ZONED: RR-500
 TAX MAP NO. 22 GRD NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

BUCKS RIDGE COURT
 PLAN AND PROFILE

OWNERS	DEVELOPER
J. DAVID MULLINX ELIZABETH C. MULLINX 1422 HOWARD ROAD DAYTON, MARYLAND, 21036	J. THOMAS SCRIVENER INC. 8800 CENTRE PARK DRIVE SUITE 209 COLUMBIA, MARYLAND, 21045

SCALE: AS SHOWN DATE: JUNE 20, 2005 DWG. NO. 3 OF 13
 DES. R.A.L. DRN. J.C.L. CHK. A.M.V.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALDWIN NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 481-2959



By The Developer:
I/We Certify That All Development And/Or Construction Will Be Done According To These Plans, And That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of The Environment Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion. I Also Authorize Periodic Onsite Inspections By The Howard Soil Conservation District.

Signature: *William Green* Date: 9/29/09

Printed Name Of Developer: **William Green**

By The Engineer:
I Certify That These Plans For Pond Construction, Erosion And Sediment Control Represents A Practical Approach Based On My Personal Knowledge Of The Site Conditions. This Plan Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District. I Have Reviewed The Plans For Compliance With The Requirements Of The Howard Soil Conservation District With An "As-Built" Plan Within 30 Days Of Completion.

Signature: *John Maguire* Date: 9-27-05

Printed Name Of Engineer: **John Maguire**

These Plans Were Prepared For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Soil Erosion And Sediment Control.

USDA-NRCS Resources Conservation Service

Signature: *John Maguire* Date: 11/20/05

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.

Approved: Department Of Public Works
Signature: *William Z. White Jr.* Date: 12-1-05
Chief, Bureau Of Highways

Approved: Department Of Planning And Zoning
Signature: *Condi Hamrick* Date: 12/3/05
Chief, Division Of Zoning

Signature: *John Dammann* Date: 12/6/05
Chief, Development Engineering Division

AS-BUILT CERTIFICATION
I Herby Certify That The Facility Shown On This Plan Was Constructed As Shown On The "As-Built" Plans And Meets The Approved Plans And Specifications.

Signature: _____ Date: _____
P.E. No. _____

ULTIMATE CONDITION SUMMARY TABLE

DRAINAGE AREA (ACRES)	RCN	Tc (HRS.)	Q/Qa - STORM EVENT - YEARS		
			1	10	100
B.M.P. NO. 1 7.64 AC.	69	0.23	3.37 c.f.s.	17.29 c.f.s.	32.69 c.f.s.
BY-PASS AREA 1A 4.94 AC.	66	0.20	0.47 in.	2.04 in.	3.70 in.
			1.52 c.f.s.	10.22 c.f.s.	19.81 c.f.s.
			0.35 in.	1.77 in.	3.32 in.
PROPOSED POND RELEASE RATES	Q c.f.s.		0.07	4.7	15.4
	ADDHYD BY-PASS AREA Q TOTAL (c.f.s.)		1.70	12.2	29.7
ALLOWED RELEASE RATES 11.97 AC.	W.S. ELEVATION		497.41	498.31	499.30
			2.10 c.f.s.	20.34 c.f.s.	42.07 c.f.s.

- LEGEND**
- SSP-SSP-SSP SUPER-SILT FENCE
 - 5F-5F-5F SILT FENCE
 - TP-TP-TP TREE PROTECTION FENCE
 - S.C.E. STABILIZED CONSTRUCTION ENTRANCE
 - EARTH DIKE
 - DENOTES L.O.D. LIMITS OF DISTURBANCE
 - E.C.M. DENOTES EROSION CONTROL MATTING (TO BE PLACED IN ALL ROADWAY DITCHES AND IN ALL SWALES)
 - 3:1 DENOTES SLOPE SYMBOL
 - R.P.S. DENOTES REMOVABLE PUMPING STATION
 - G.I.P. DENOTES GABION INFLOW PROTECTION
 - FB. DENOTES FILTER BAG
 - DENOTES AREA TREATED BY GRASS CHANNEL CREDIT FOR REV
 - I.P. DENOTES INLET PROTECTION

TEMPORARY SEDIMENT BASIN No. 1

INITIAL D.A. = 7.48 AC.
FINAL D.A. = 7.64 AC.
STORAGE REQUIRED
WET = 1800 x 7.64 = 13,752 CuFt.
DRY = 1800 x 7.64 = 13,752 CuFt.
STORAGE PROVIDED
WET = 13,752 CuFt. @ ELEV. 497.10
DRY = 13,752 CuFt. @ ELEV. 498.70
BOTTOM ELEV. = 493.00
STORAGE DEPTH = 9'-0"
TOP OF EMBANKMENT
CLEAN OUT ELEV. = 495.00
RISER CREST ELEV. = 498.70
1 YR. ORIFICE INV. = 497.10
Q1 exist. = 124 c.f.s.
Q1 prop. = 0.40 c.f.s.



PHASE ONE GRADING PLAN
SCALE: 1" = 50'

NOTE: SEE SHEET 9 FOR SEQUENCE OF CONSTRUCTION.

OWNERS
J. DAVID MULLINX
ELIZABETH C. MULLINX
14420 HOWARD ROAD
DAYTON, MARYLAND, 21036

DEVELOPER
J. THOMAS SCRIVENER INC.
8808 CENTRE PARK DRIVE
SUITE 209
COLUMBIA, MARYLAND, 21145

CONTRACTOR
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1000 NATIONAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PARK
ELICOTT CITY, MARYLAND 21042
410-461-2895

PHASE TWO GRADING PLAN
SCALE: 1" = 50'

NOTE: SEE SHEET 9 FOR SEQUENCE OF CONSTRUCTION.

STREET TREE PLANT SCHEDULE & PLANT LIST

SYMBOL	QTY.	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
(Symbol)	12	PLATANUS X ACERIFOLIA BLOODGOOD BLOODGOOD LONDON PLANE	2 1/2"-3" CAL.	40' APART ON PUBLIC R/W

NOTE: STREET TREE TYPE IS ONLY A RECOMMENDATION AND MAY BE REVISED TO AN ACCEPTABLE COUNTY EQUIVALENT FROM THE HOWARD COUNTY LANDSCAPE MANUAL.

STREET TREE, GRADING & SEDIMENT CONTROL PLAN
BUCKSKIN OAKS
LOTS 1 THRU 4, OPEN SPACE LOT 5,
BUILDABLE PRESERVATION PARCEL 'A' AND
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(A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)

TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: JUNE 20, 2005
ZONE: RB-DEO
SHEET 4 OF 13

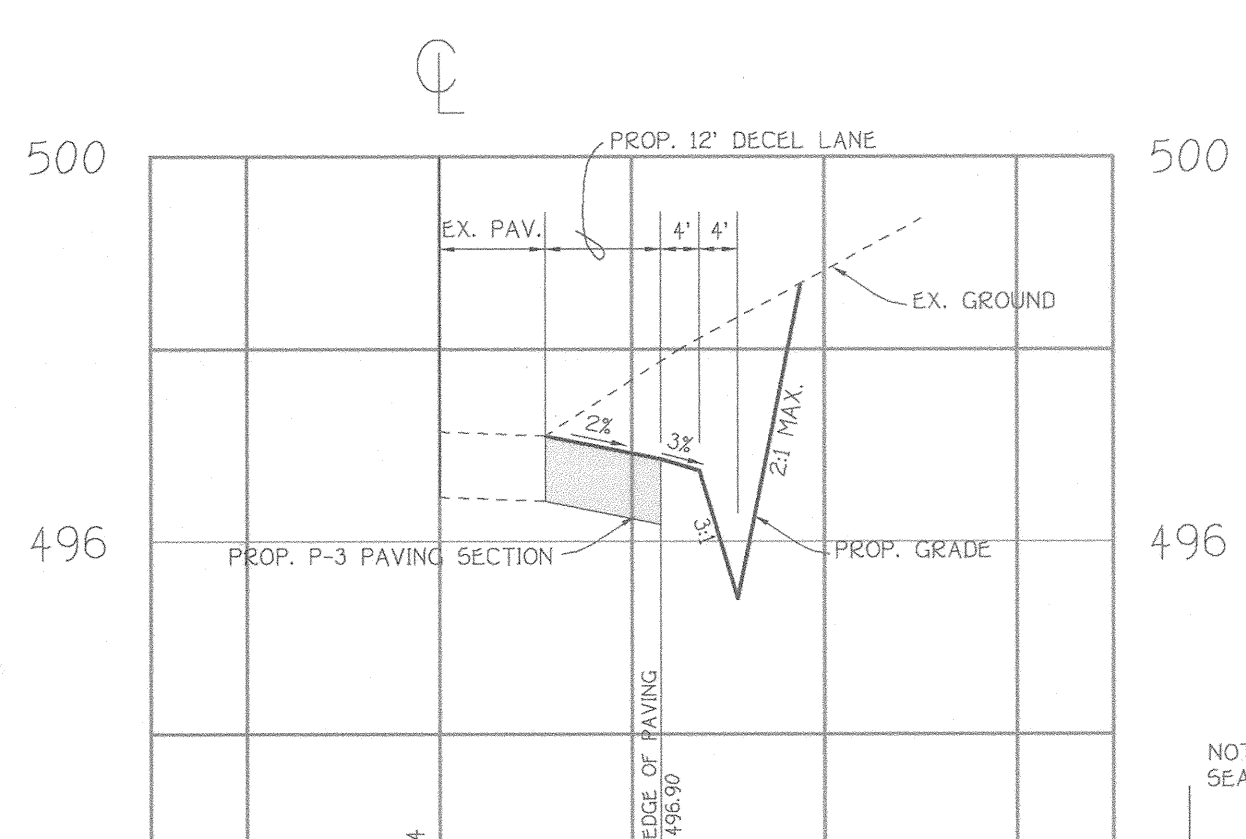
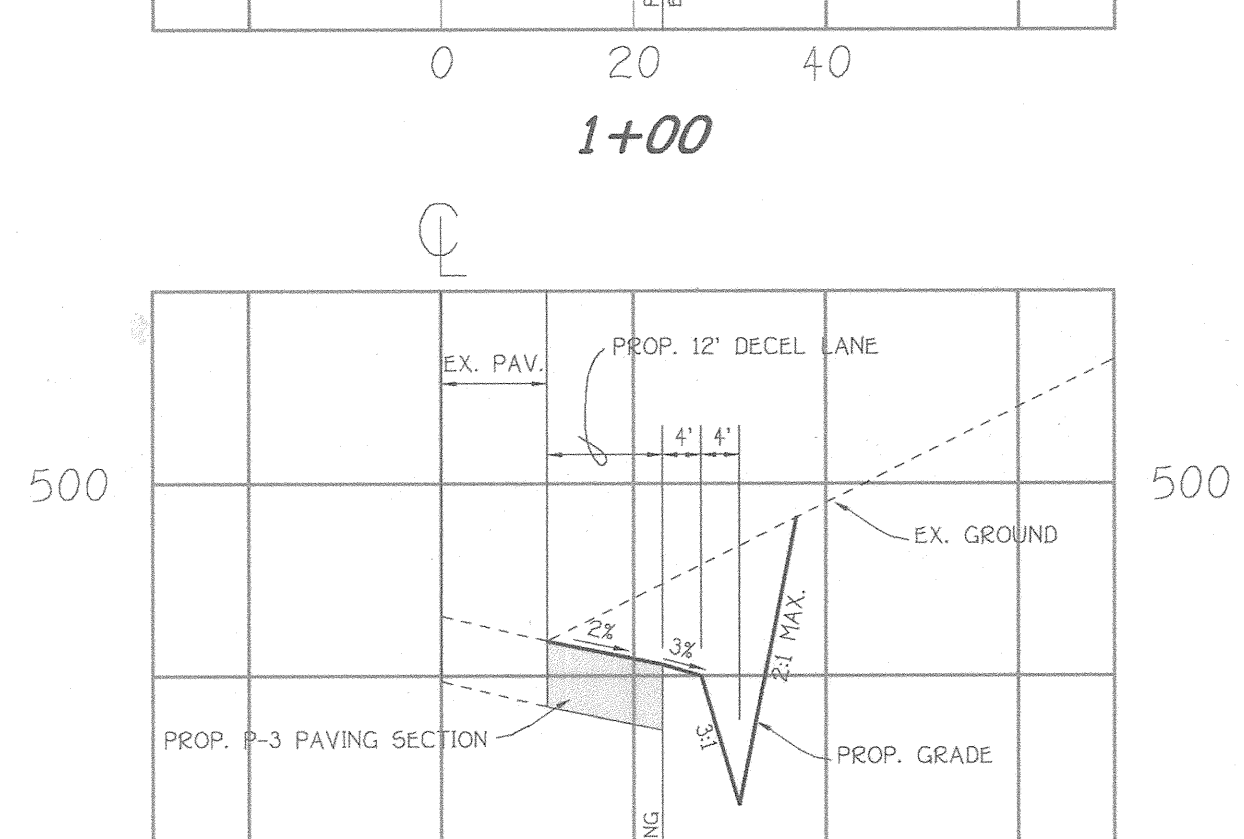
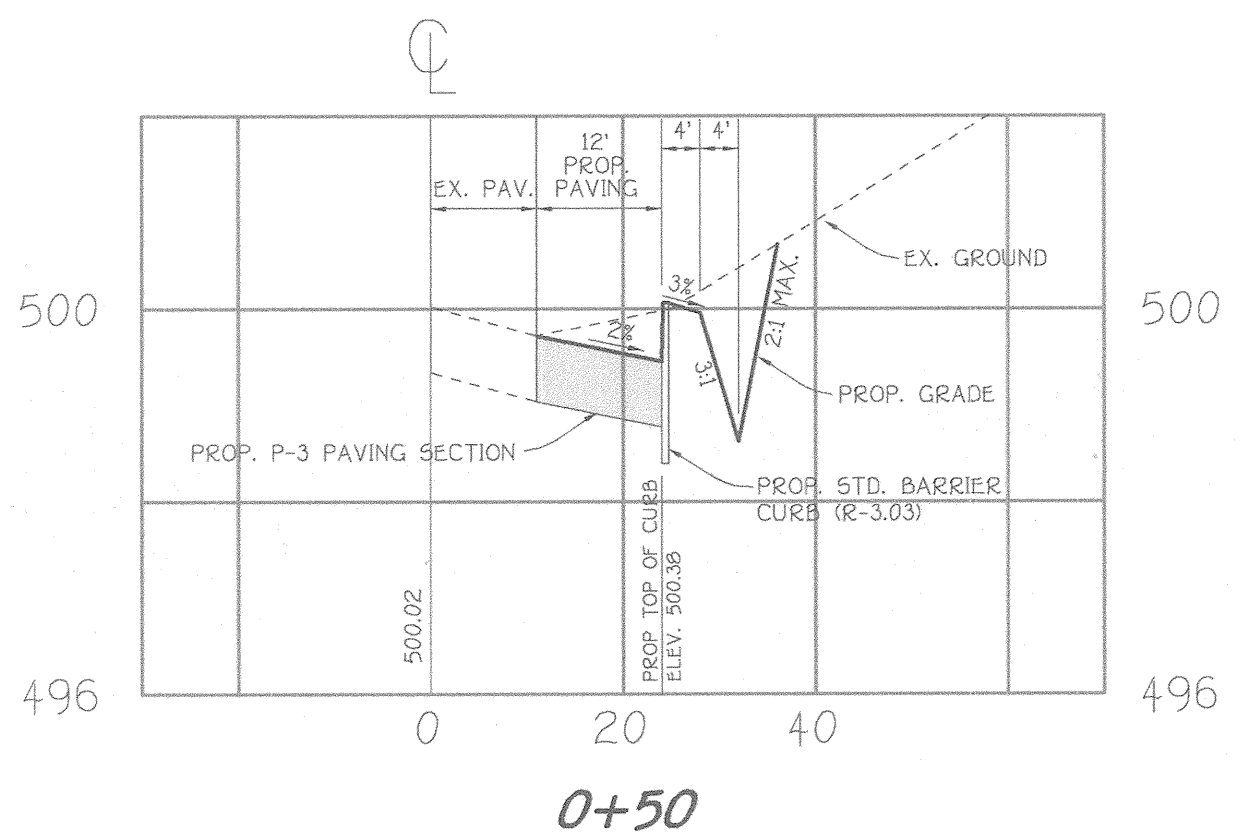
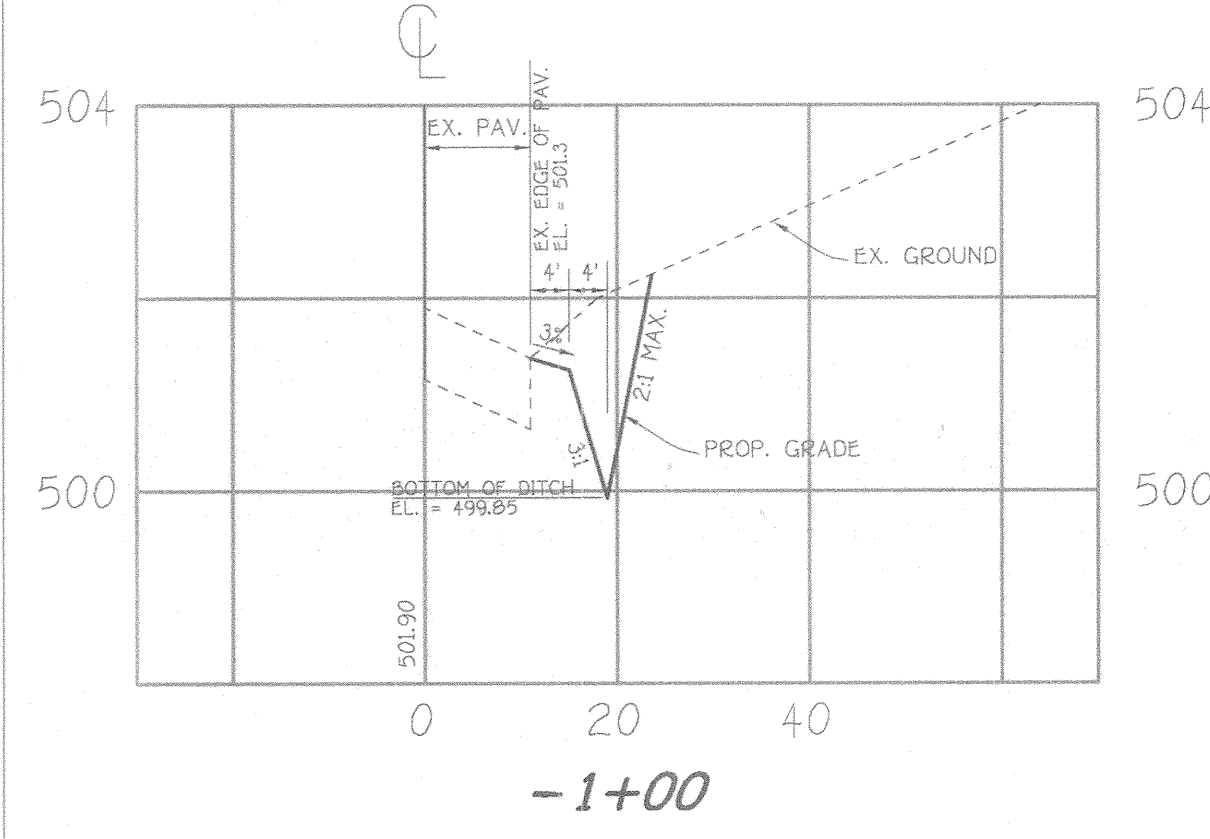
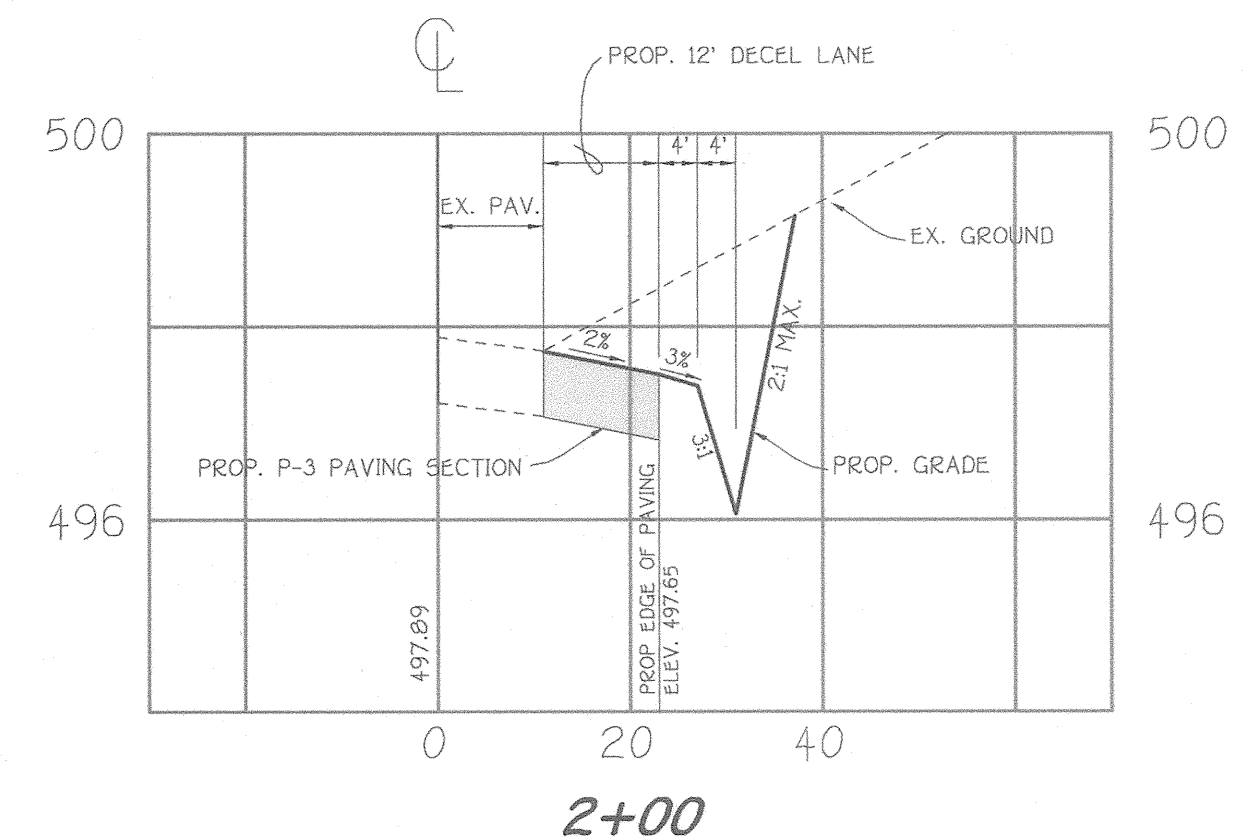
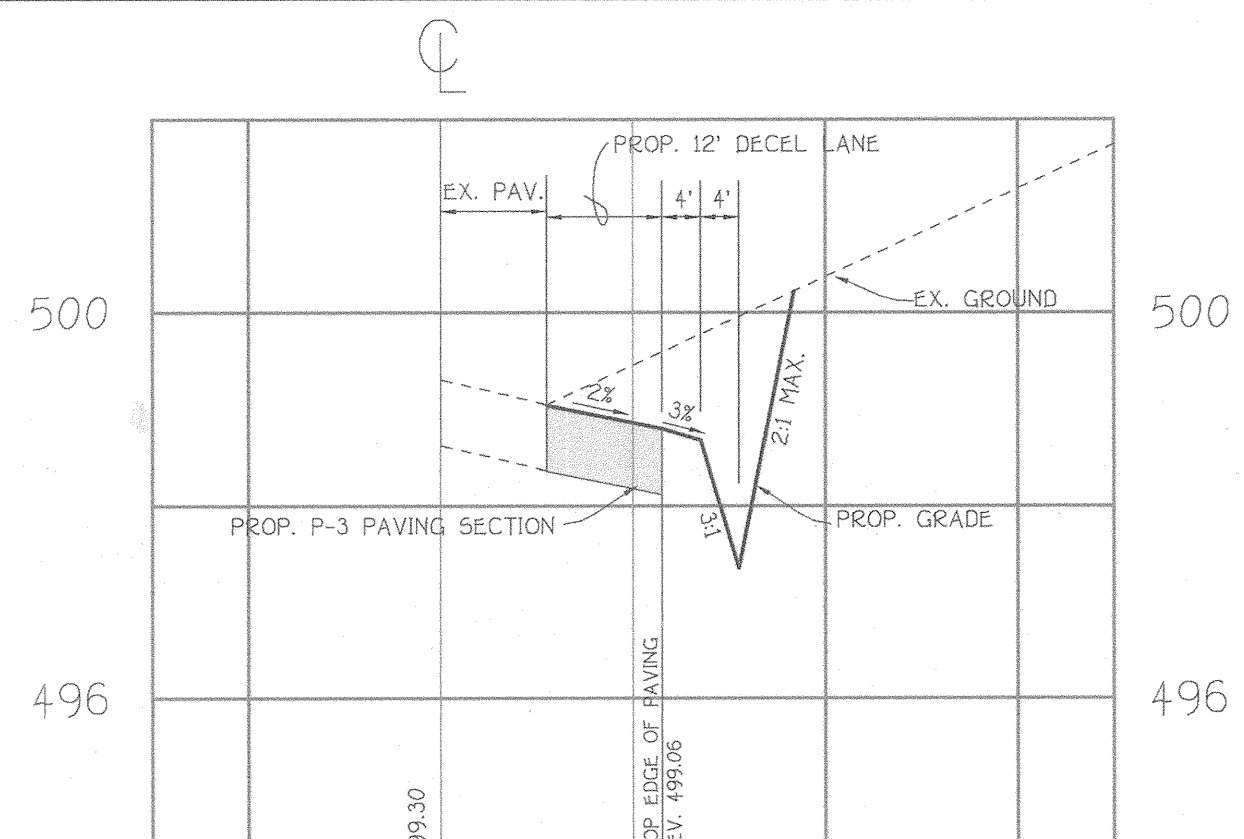
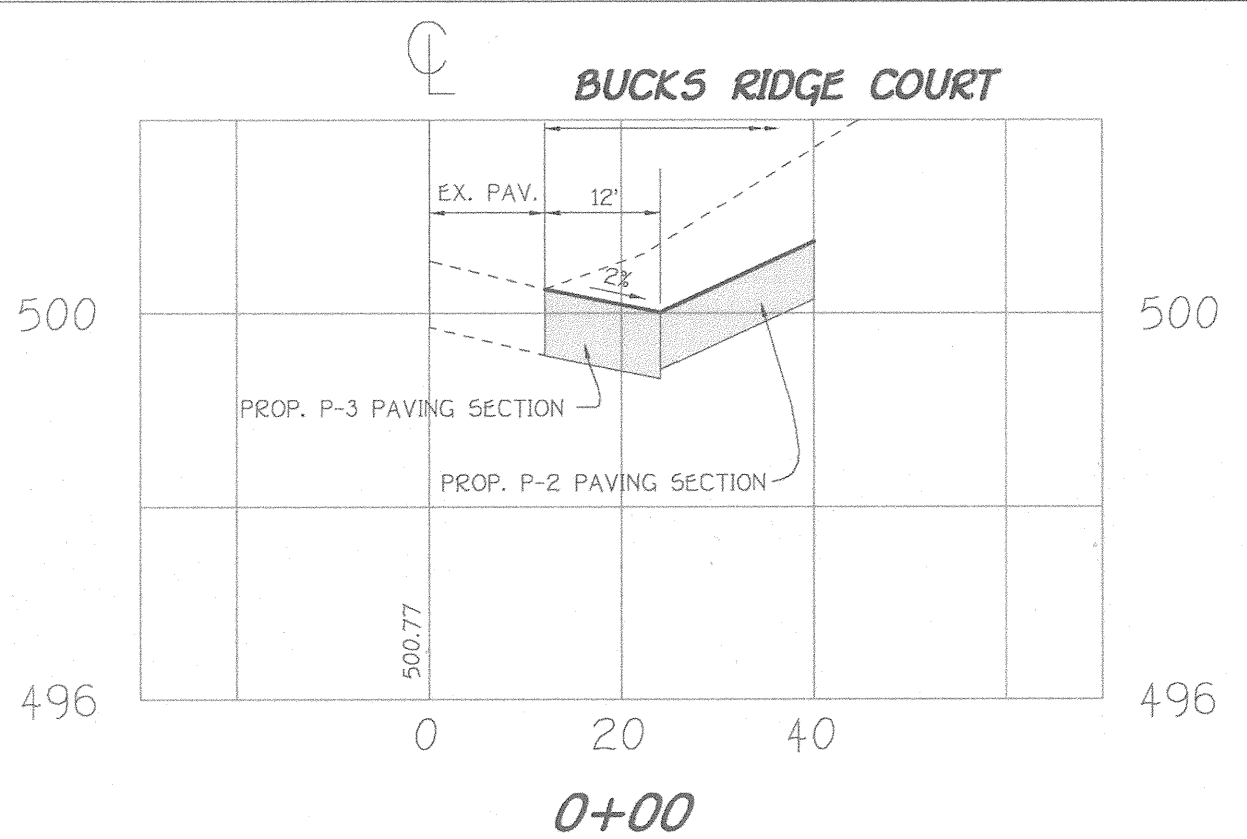
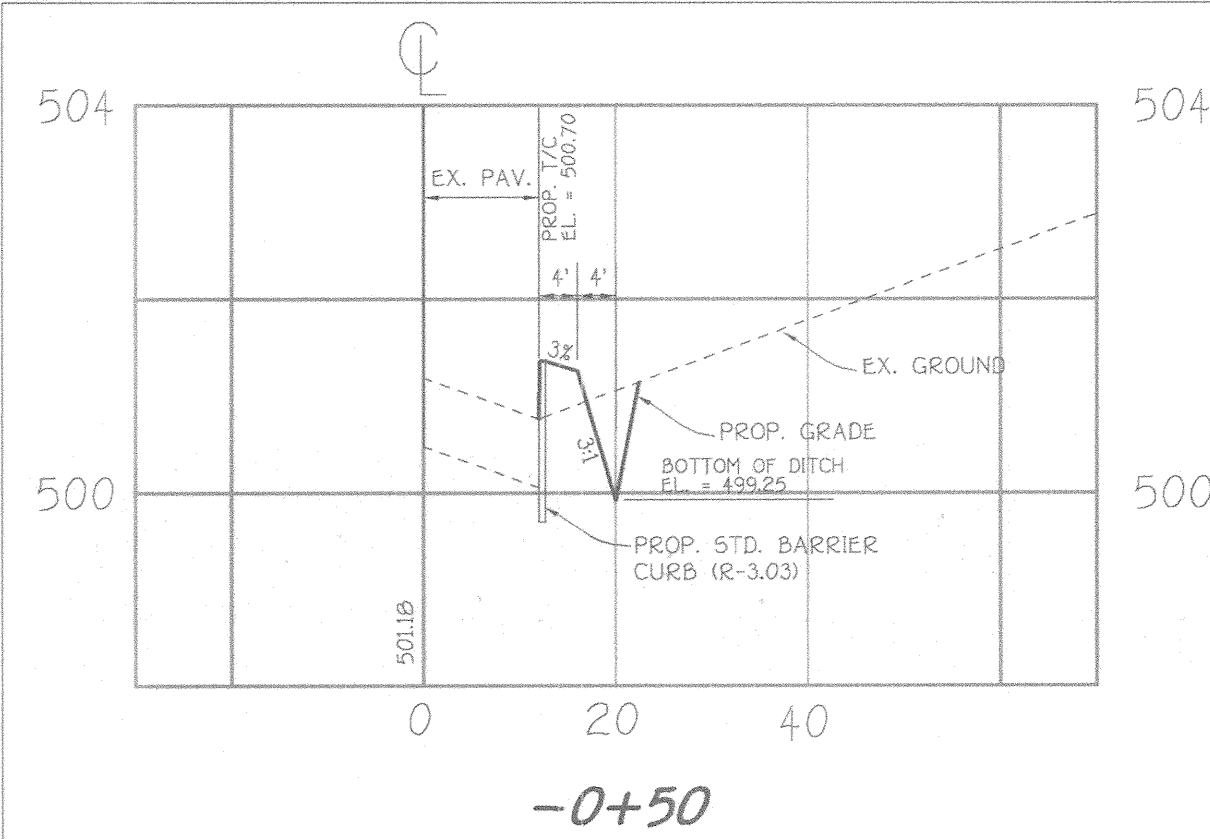
NOTE:
NO DRIVEWAY CULVERTS ARE NECESSARY.

FINANCIAL SURETY FOR THE 12 REQUIRED STREET TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 3,600.00.
NOTE: STREET TREE TYPE IS ONLY A RECOMMENDATION AND MAY BE REVISED TO AN ACCEPTABLE COUNTY EQUIVALENT FROM THE HOWARD COUNTY LANDSCAPE MANUAL.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cindy Harvath 12/7/05
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

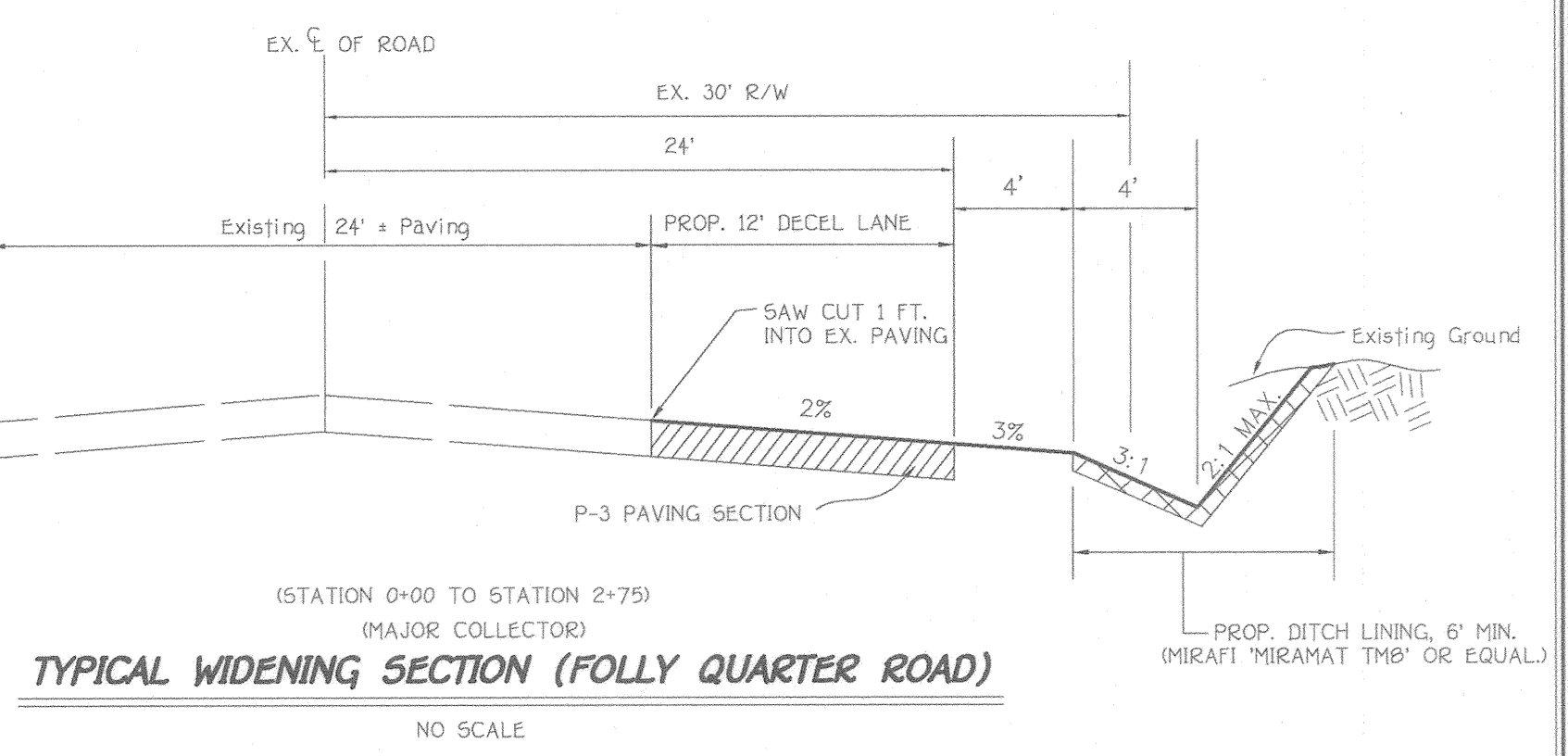
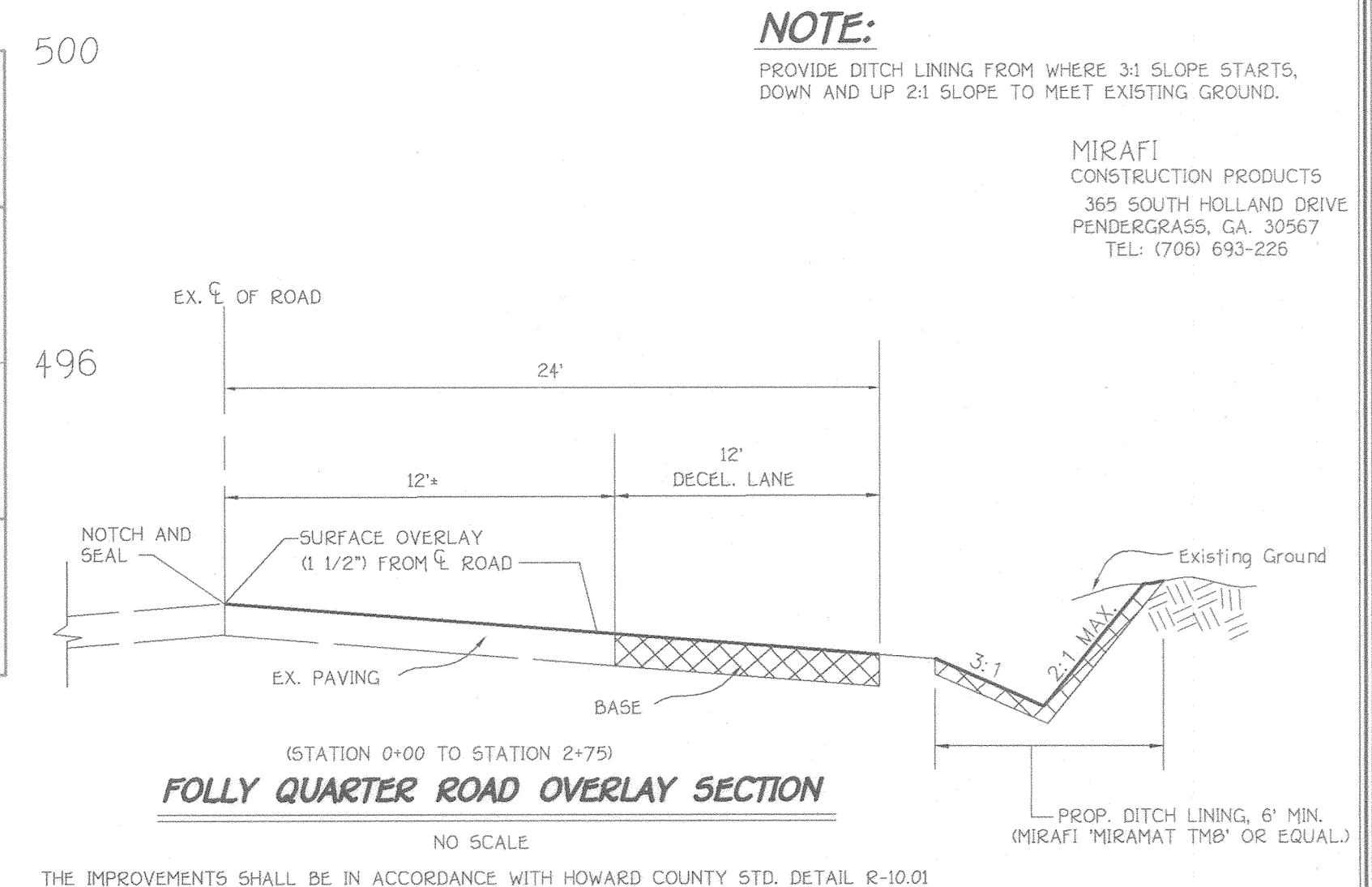
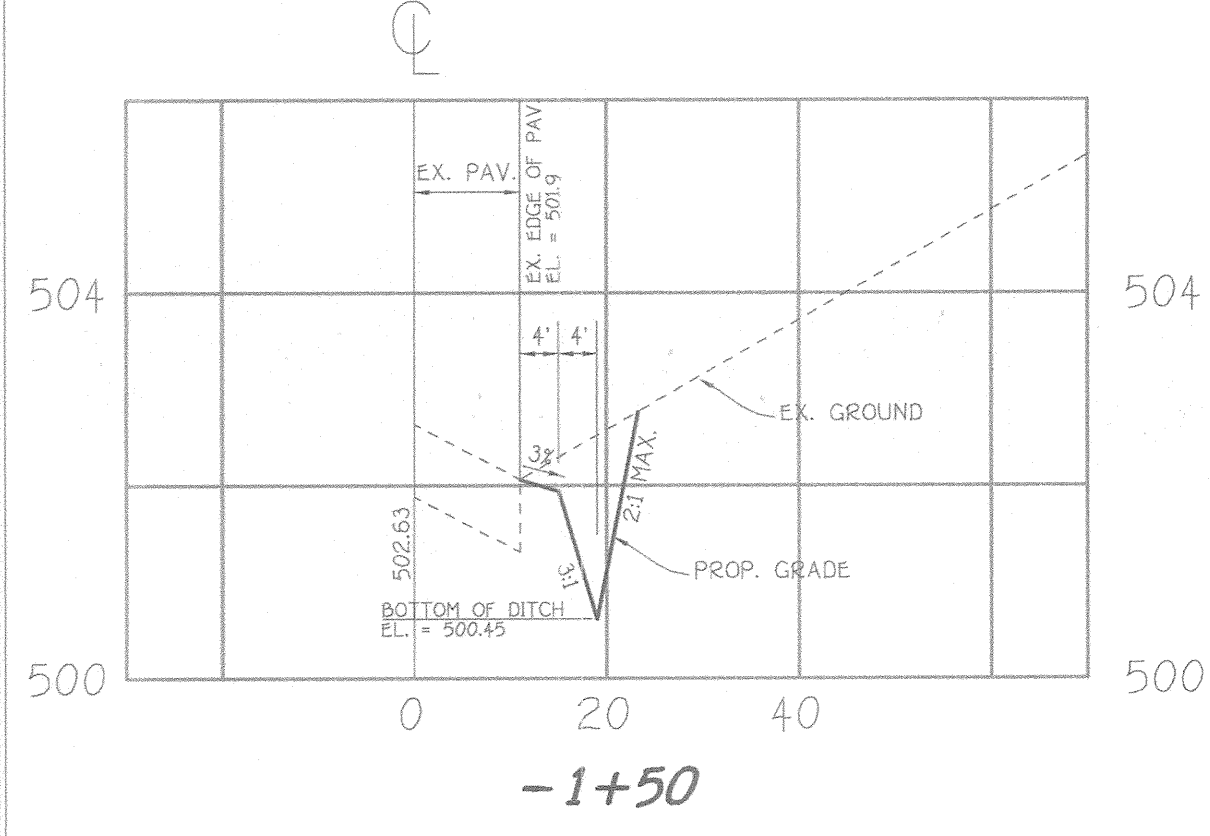
APPROVED: DEPARTMENT OF PUBLIC WORKS
Oliver Williams 12/7/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE

APPROVED: BUREAU OF HIGHWAYS
William Z. White 12-1-05
 CHIEF, BUREAU OF HIGHWAYS
 DATE



CROSS-SECTIONS (FOLLY QUARTER ROAD)

SCALE: HORIZ. : 1" = 20'
 VERT. : 1" = 2'



GENERAL MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

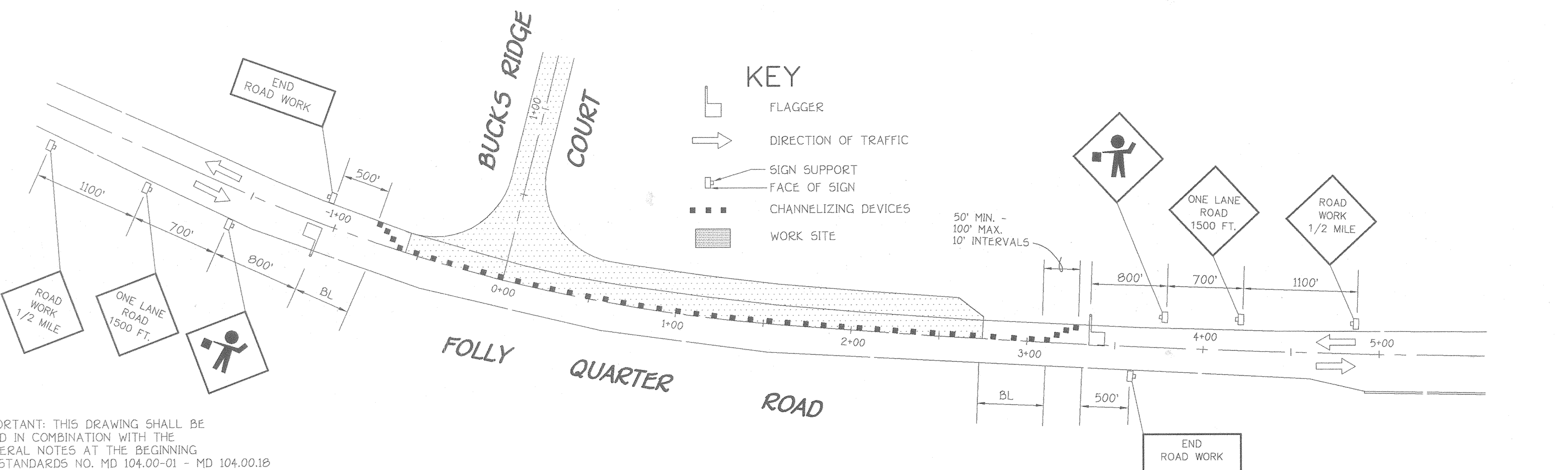
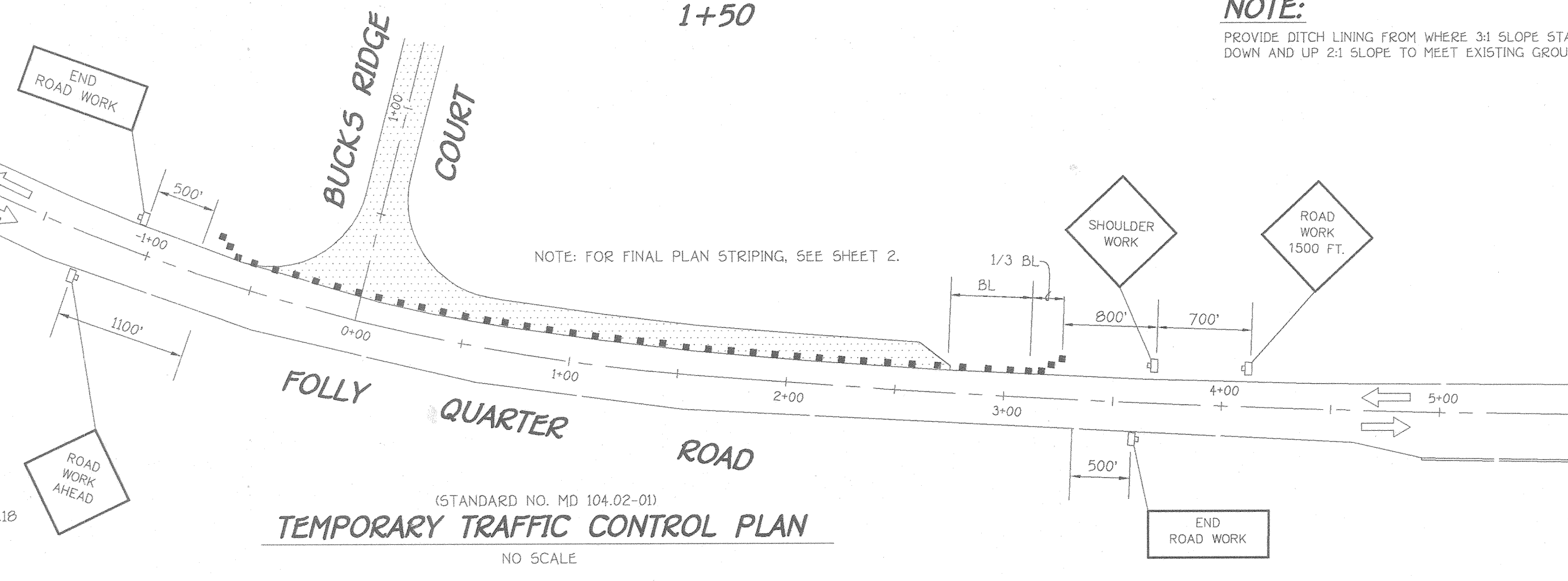
- THE PURPOSE OF THIS PORTION OF THE SPECIAL PROVISIONS IS TO SET FOR THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE TO TRAFFIC WITHIN WORK AREAS AND TO MINIMIZE ANY INTERFERENCE TO THE TRAVELING PUBLIC AND THE CONTRACTOR AND/OR PERMITTEE.
- PROPERLY TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY AND THAT OF HIGHWAY USERS HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE IMPROPER APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
- THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
- THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 3RD EDITION, ESPECIALLY PART VI AND TO SECTION 8H OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (LANIARY, 2003), INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH.
- THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS SET FOR IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THIRTY DAYS PRIOR TO THE PROPOSED SCHEDULING CHANGE. THE CONTRACTOR AND/OR PERMITTEE SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
- NO WORK SHALL BEGON ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE TO HAVE BEEN CHECKED FOR APPROVED USAGE.
- GENERAL AND SPECIFIC WARNING SIGNS SHALL BE IN PLACE WHEN SPECIFIC WORK TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLICS AND ANY ADDITIONAL SIGNING HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED.
- THE CONTRACTOR AND/OR PERMITTEE SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY, OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND HORSES.
- ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY OPERATIONAL AS SET FORTH IN THE TCP. THE MUTCD AND/OR SECTION 8H OF THE SPECIFICATIONS, FOR SELECTIVE DEVICES, A PARTICULAR DEVICES IS REQUIRED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETRO-REFLECTANCE CAPABILITY OF AT LEAST 50% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 50% OF THE VISIBLE REFLECTIVE SURFACE.
- ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE.
- THROUGHOUT THE PERIODS OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPLEMENTING THE APPROVED TCP. IN LIEU OF THE TCP PREPARED FOR THIS PROJECT, AND/OR INDIVIDUAL TYPICAL TRAFFIC CONTROL STANDARDS, THE CONTRACTOR AND/OR PERMITTEE HAS THE OPTION OF PREPARING AND SUBMITTING A TCP, WHOLLY OR IN PART, OF HIS OWN DESIGN, WHICH SHALL BE APPROVED BY THE ENGINEER AND PRESERVED BY THE ADMINISTRATION. A TCP DEVELOPED BY THE CONTRACTOR AND/OR PERMITTEE SHALL NOT BE IMPLEMENTED UNTIL ADVANCE WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. TCPs MAY BE IMPLEMENTED WITHIN A SINGLE PROJECT OR JOINTLY BETWEEN TWO OR MORE PROJECTS. IN SITUATIONS WHERE TCPs CONTROLLY INTERFERE, THE CASE SHALL BE EXERCISED TO PRESENT CORRECT AND NON-CONFLICTING GUIDANCE TO THE TRAVELING PUBLIC.
- THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER UNLESS OTHERWISE NOTED.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTED. NO TRAVEL LANES OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING APPROVAL FROM THE ENGINEER. ALL TRUCKS AND EXCESS TO THE WORK AREA BY THE CONTRACTOR AND/OR PERMITTEE SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.

IMPORTANT: THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES AT THE BEGINNING OF STANDARDS NO. MD 104.00-01 - MD 104.00-10

IMPORTANT: THIS DRAWING SHALL BE USED IN COMBINATION WITH THE GENERAL NOTES AT THE BEGINNING OF STANDARDS NO. MD 104.00-01 - MD 104.00-10

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 481-2222

NOTE: FLAGGER SHALL NEVER BE STATIONED MORE THAN 1000' AWAY FROM THE ADVANCE FLAGGER SIGN.



OWNERS
 J. DAVID MULLINIX
 ELIZABETH C. MULLINIX
 14420 HOWARD ROAD
 DAYTON, MARYLAND, 21036

PATRICIA LEE SCHWARZ
 13304 FOLLY QUARTER ROAD
 ELLICOTT CITY, MARYLAND, 21042-1247

DEVELOPER
 J. THOMAS SCRIVENER INC.
 8800 CENTRE PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21145

FOLLY QUARTER ROAD CROSS-SECTIONS
BUCKSKIN OAKS
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 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINIX PROPERTY, PLAT NO. 14449)

ZONED: RR-DEO
 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 5 OF 13

Approved: Department Of Public Works
William F. ... 12-1-05
 Chief, Bureau Of Highways
 Date

Approved: Department Of Planning And Zoning
Cindy ... 12/7/05
 Chief, Division Of ...
 Date

Alan ... 12/6/05
 Chief, Development Engineering Division
 Date

SCHEDULE A - PERIMETER LANDSCAPE EDGE

PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL, FENCE OR BEEM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED & PROVIDED		
						SHADE TREES	EVERGREEN TREES	SHRUBS
P-1	ADJACENT TO PERIMETER	A	324'	NO	NO	5	-	-
P-2	ADJACENT TO PERIMETER	A	808'	YES - 146'	NO	11	-	-
P-3	ADJACENT TO PERIMETER	A	237'	NO	NO	4	-	-
P-4	ADJACENT TO PERIMETER	A	161'	NO	NO	3	-	-

SCHEDULE D - STORMWATER MANAGEMENT AREA LANDSCAPING

LINEAR FEET OF PERIMETER	D1: 420'	D2: 165'	D3: 413'	D4: 264'
NUMBER OF TREES REQUIRED:				
SHADE TREES	0	3	0	5
EVERGREEN TREES	10	4	10	7
CREDIT FOR EXISTING VEGETATION (NO, YES AND X)	NO	NO	NO	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND X)	NO	NO	NO	NO
NUMBER OF TREES PROVIDED:				
SHADE TREES	0	3	0	5
EVERGREEN TREES	10	4	10	7
OTHER TREES (2:1 SUBSTITUTION)				

DRAINAGE AREA DATA

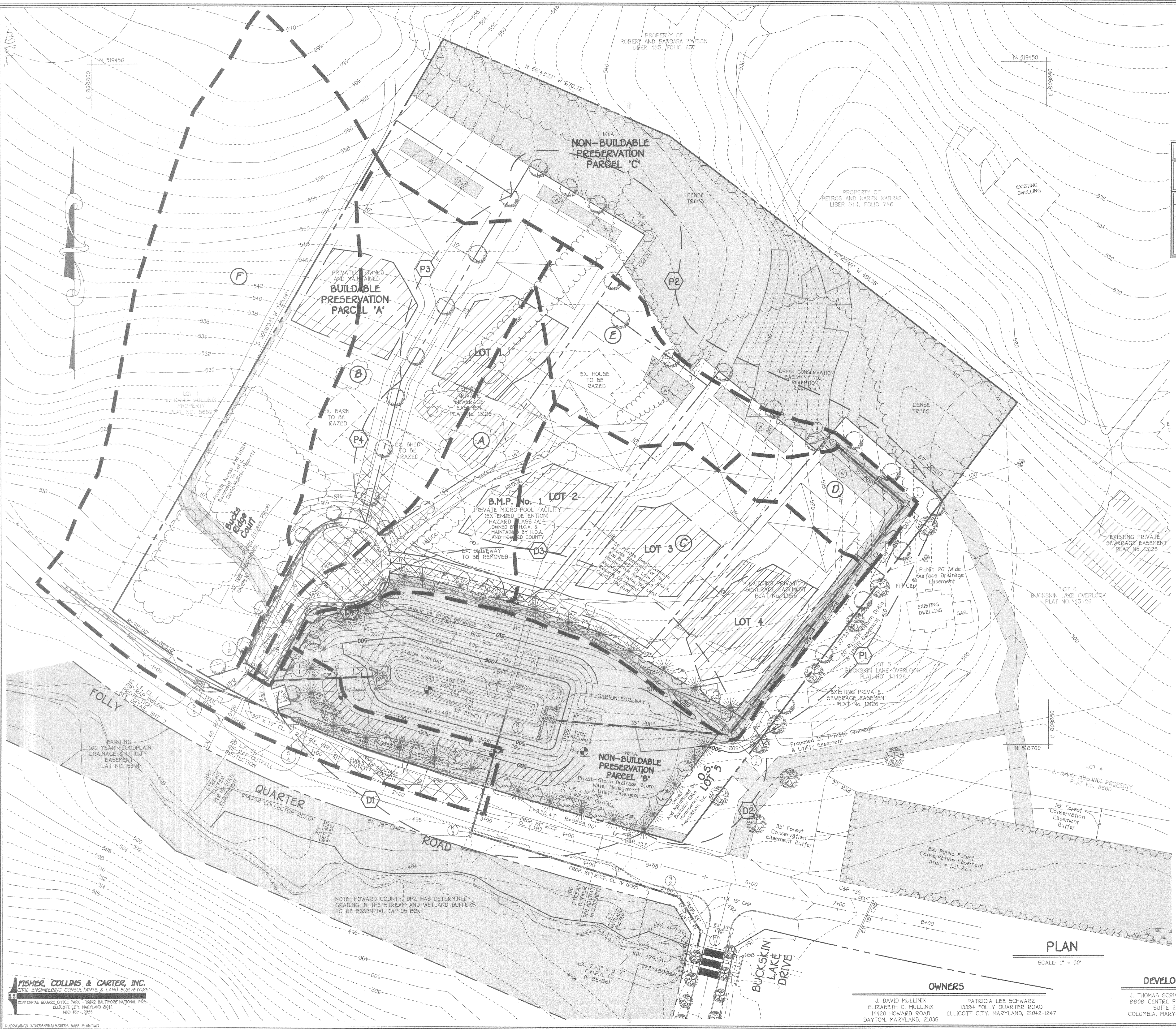
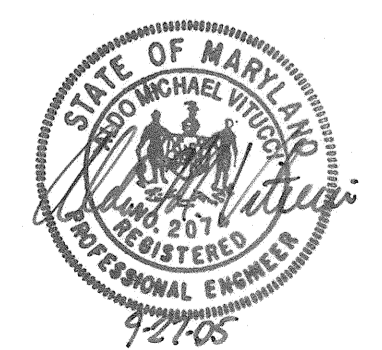
STRUCTURE NO.	DRAINAGE AREA	AREA	C	ZONED	% IMP.
1-1	A	0.88 AC.	0.63	RR-DEO	54%
1-2	B	1.52 AC.	0.35	RR-DEO	14%
1-3	C	1.88 AC.	0.41	RR-DEO	23%
1-4	D	0.34 AC.	0.42	RR-DEO	25%
1-5	E	0.77 AC.	0.40	RR-DEO	22%
1-6	F	3.98 AC.	0.30	RR-DEO	7%

LANDSCAPING PLANT LIST

QTY.	KEY	NAME	SIZE
24		ACER RUBRUM 'RED SUNSET' (RED SUNSET RED MAPLE)	2 - 2 1/2" CALIPER FULL CROWN, B&B
23		ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE)	2 - 2 1/2" CALIPER FULL CROWN, B&B
31		PINUS STROBUS EASTERN WHITE PINE	6' - 8' HT.

"THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.24 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL". FINANCIAL SURETY FOR THE 78 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$18,750.00.

LANDSCAPE PLAN AND STORM DRAIN DRAINAGE AREA MAP
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINIX PROPERTY, PLAT NO. 14449)
 ZONED: RR-DEO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 6 OF 13



FISHER, COLLINS & CARTER, INC.
 CIVIC ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 7872 BALTIMORE NATIONAL PARK
 ELICOTT CITY, MARYLAND 21117
 410-461-2895

OWNERS
 J. DAVID MULLINIX
 ELIZABETH C. MULLINIX
 14420 HOWARD ROAD
 DAYTON, MARYLAND, 21036

PATRICIA LEE SCHWARZ
 13384 FOLLY QUARTER ROAD
 SUITE 209
 ELLICOTT CITY, MARYLAND, 21042-1247

DEVELOPER
 J. THOMAS SCRIVENER INC.
 8808 CENTRE PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21145

STRUCTURE SCHEDULE

STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	ROAD NAME	C.L. ROAD STA.	OFFSET	TYPE	REMARKS
I-1	* 500.64	498.04	497.79	BUCKS RIDGE COURT	0+59	17' R	SEE DETAIL, THIS SHEET	
I-2	* 500.96	---	498.21	BUCKS RIDGE COURT	0+64	17' L	'D' INLET	S.D. - 4.11
I-3	* 503.17	499.67	499.42	N 518711.5925 E 809499.2073	---	---	SEE DETAIL, THIS SHEET	
I-4	* 505.10	502.35	502.10	N 518964.3156 E 809693.0721	---	---	SEE DETAIL, THIS SHEET	
I-5	* 514.27	---	510.06	N 519031.2976 E 809615.3843	---	---	'D' INLET	S.D. - 4.11
I-6	* 495.50	492.06	490.06	N 518644.9811 E 809226.6482	---	---	SEE DETAIL, THIS SHEET	
M-1	490.00	482.48	482.23	FOLLY QUARTER ROAD	5+60	59.4' R	STD. MANHOLE	G - 5.11
M-2	492.28	483.85	483.60	FOLLY QUARTER ROAD	5+28	28.5' R	STD. MANHOLE	G - 5.11
M-3	496.50	489.29	489.04	FOLLY QUARTER ROAD	2+90	22.5' R	STD. MANHOLE	G - 5.11
R-1	501.04	494.00	493.75	N 518733.5188 E 809252.3257	---	---	CONCRETE RISER	-----
S-1	498.51	497.01	---	N 518777.7756 E 809108.4739	---	---	CONC. END SECTION	S.D. - 5.52
S-2	498.60	497.10	---	N 518728.6821 E 809307.1098	---	---	CONC. END SECTION	S.D. - 5.52
S-4	498.19	496.52	---	BUCKS RIDGE COURT	0+35	63' R	TYPE 'O' HEADWALL	S.D. - 5.42 & S.D. - 5.42 A
S-5	499.02	---	497.35	BUCKS RIDGE COURT	0+22	43' L	TYPE 'O' HEADWALL	S.D. - 5.42 & S.D. - 5.42 A

* - DENOTES THROAT ELEVATION

PIPE SCHEDULE

SIZE	MATERIAL	LENGTH
15"	HDPE	137'
18"	HDPE	621'
30" x 19"	CL. V. R.C.C.P.E.	99'
24"	ASTM, C-361 B-25	90'
24"	CL. V. R.C.C.P.	41'
24"	CL. IV. R.C.C.P.	284'
24"	ALUMINIZED C.M.P., TYPE II	16'

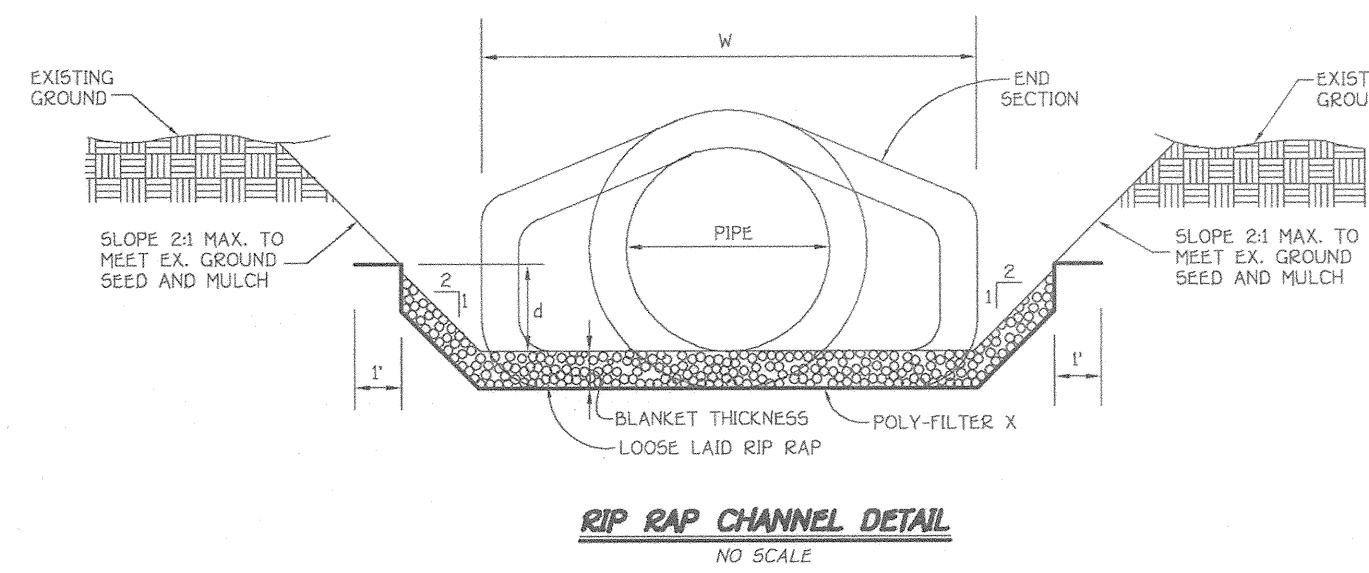
CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the filter, riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

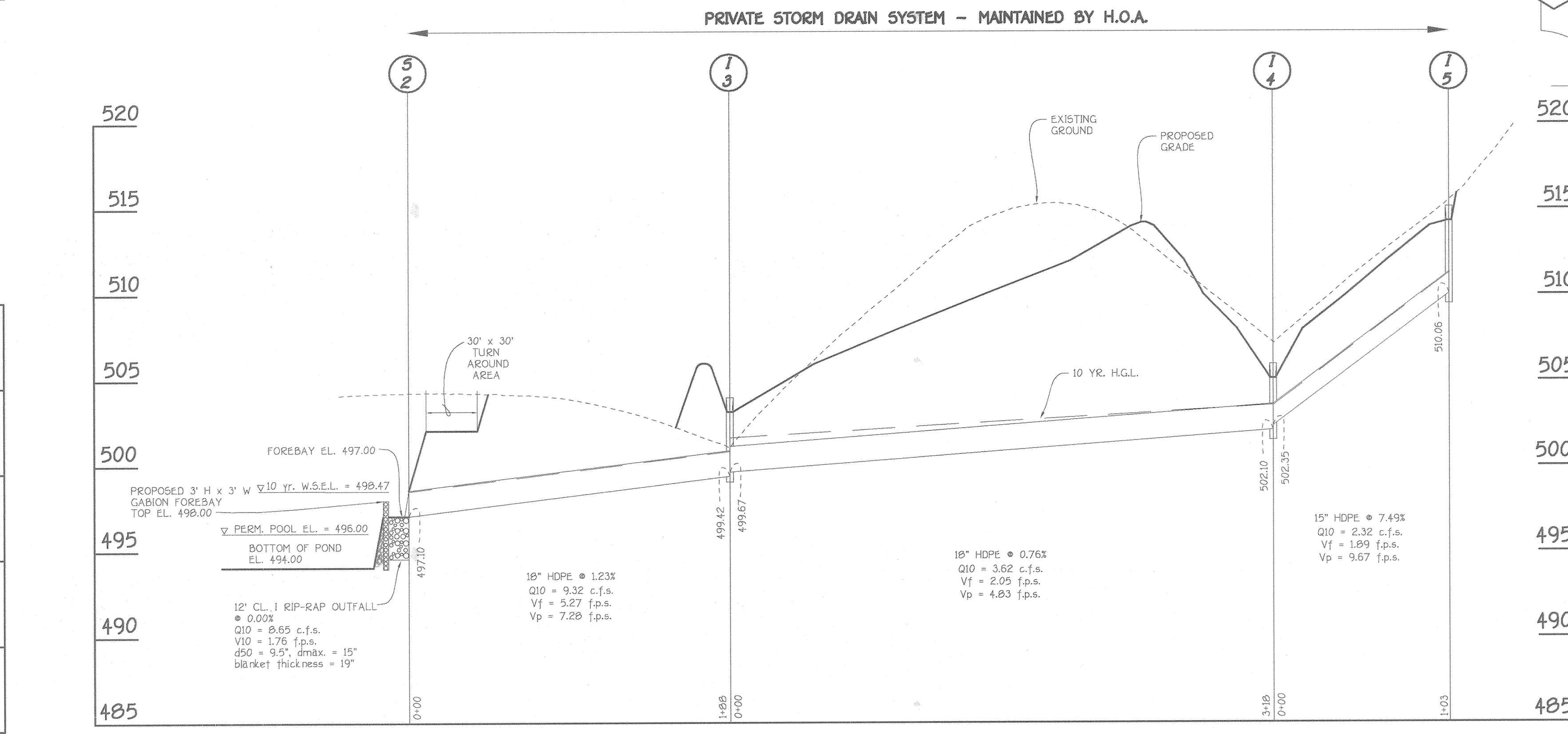
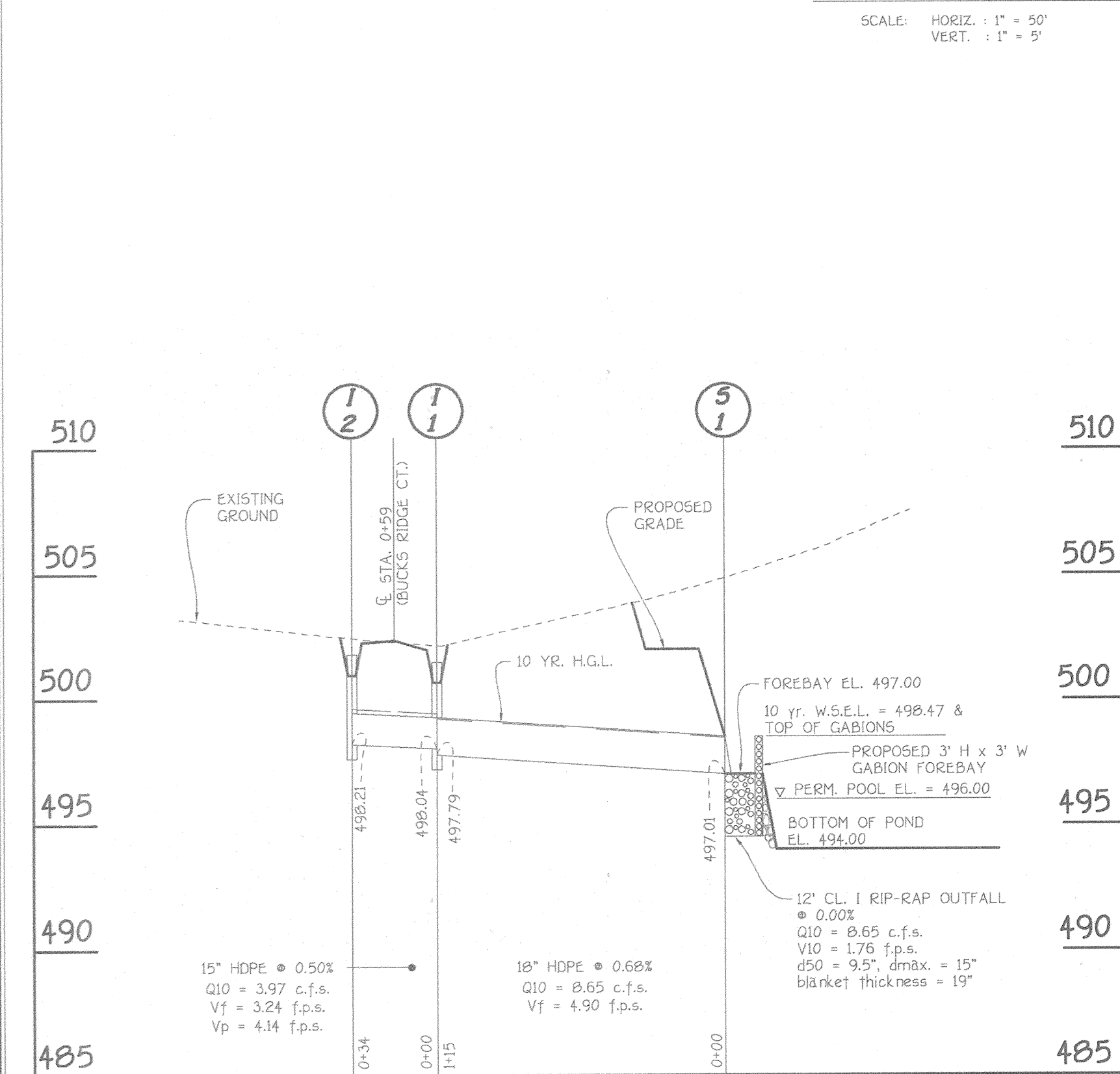
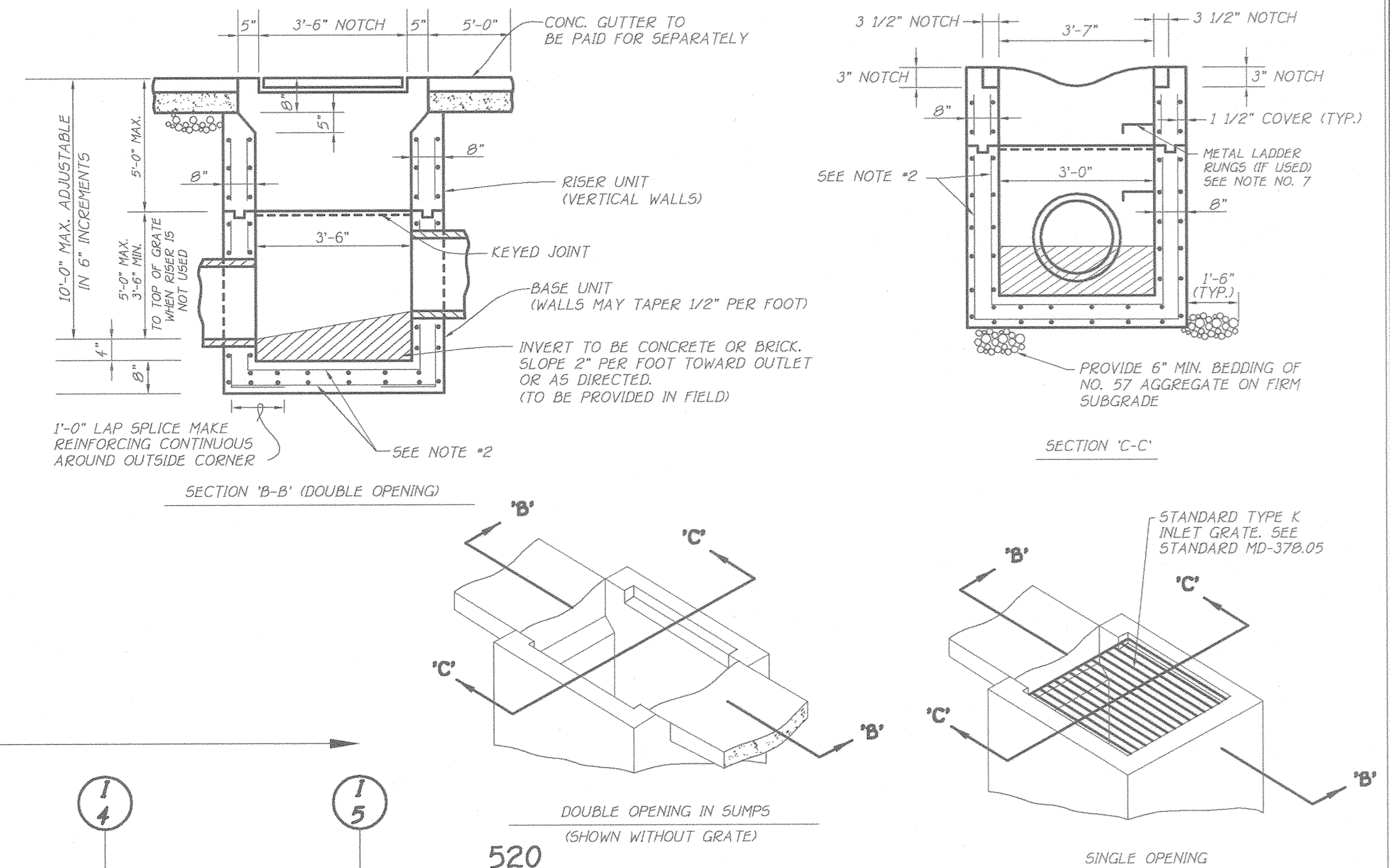
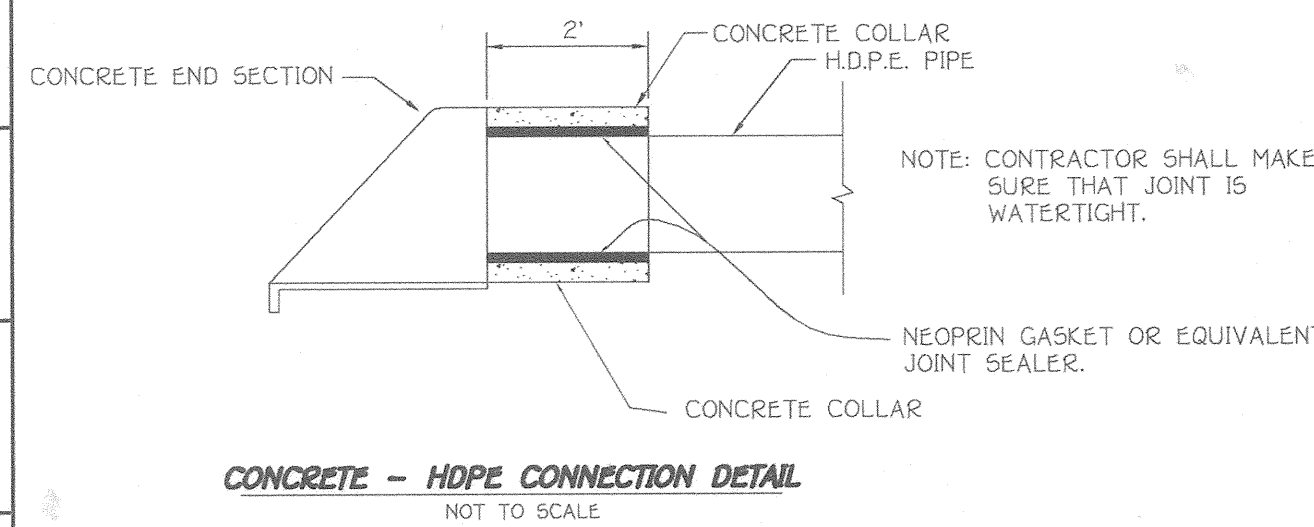
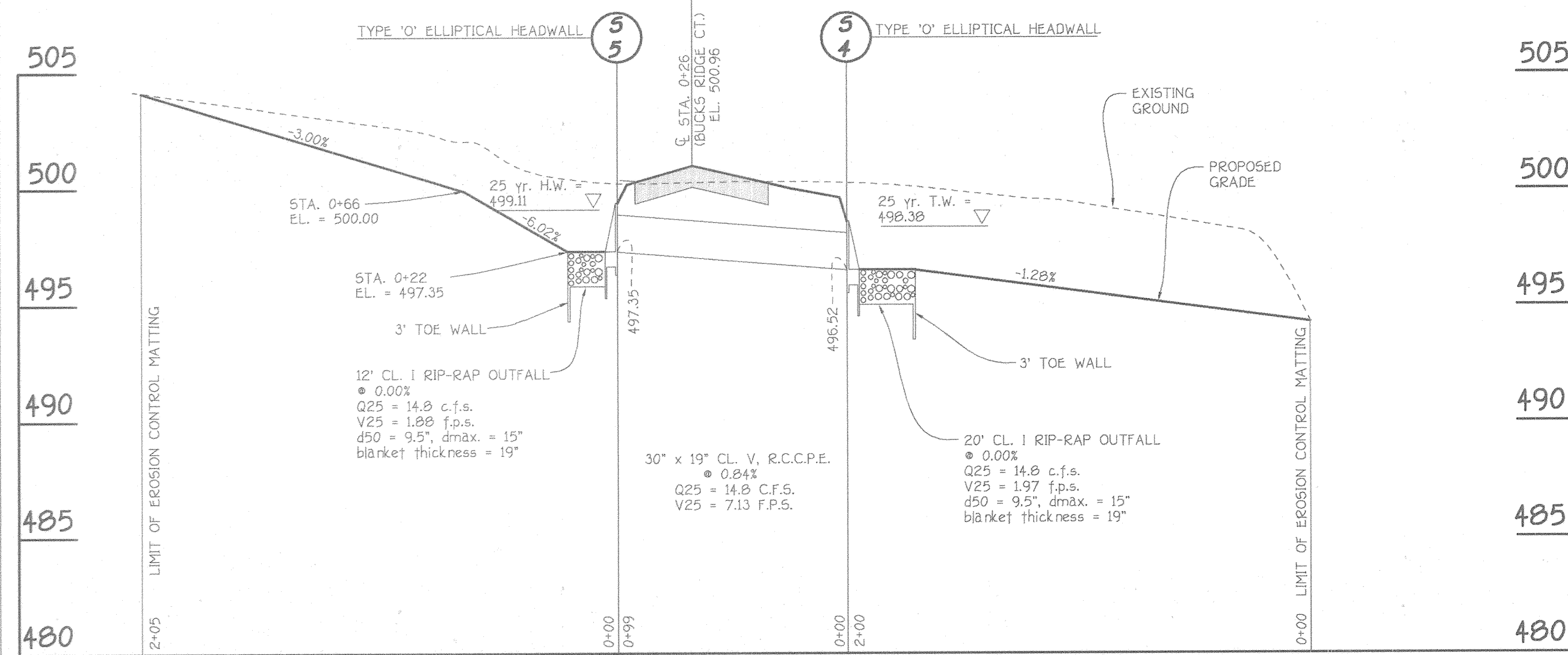
RIP-RAP CHANNEL DESIGN DATA

STRUCTURE	AREA	WETTED PERIMETER	R	R ^{2/3}	S	S ^{1/2}	W	d	N	V	Q	BLANKET THICKNESS	PIPE SIZE
S-1	4.92'	9.00'	0.5467	0.6673	0.0050	0.0707	6.0'	0.67'	0.04	1.76	8.65	9.5"	19"
S-2	5.18'	9.13'	0.5674	0.6841	0.0050	0.0707	6.0'	0.70'	0.04	1.80	9.32	9.5"	19"
S-4	7.98'	13.13'	0.6078	0.7163	0.0050	0.0707	10.0'	0.70'	0.04	1.88	14.8*	9.5"	19"
S-5	7.98'	13.13'	0.6078	0.7163	0.0050	0.0707	10.0'	0.70'	0.04	1.88	14.8*	9.5"	19"

* - DENOTES 25-YEAR Q



Approved: Department Of Public Works
Walter L. ... 12-1-05
 Chief, Bureau of Highways
 Approved: Department Of Planning And Zoning
Clara ... 12/7/05
 Chief, Division of Land Development
 Approved: *William ...* 12/20/05
 Chief, Development Engineering Division



- GENERAL NOTES:**
- CONCRETE TO BE MIX NO. 6 (4500 P.S.I.).
 - REINFORCING - 2 LAYERS OF 4 x 4 - W 4.0 x W 4.0 WELDED WIRE FABRIC.
 - THREADED PLASTIC INSERTS TO BE PROVIDED FOR HANDLING.
 - FOR GRATE DETAILS SEE STANDARD MD. - 378.05. GRATE TO BE AS SHOWN OR FURNISH APPROVED EQUIVALENT.
 - PIPE OPENINGS TO BE PROVIDED AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS REFER TO CONSTRUCTION PLANS.
 - PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON THE CONSTRUCTION PLANS.
 - LADDER RUNGS SHALL BE IN ACCORDANCE WITH STANDARD MD. - 383.91, AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - MINIMUM DEPTH PAYMENT PER "EACH" INLET INCLUDES DEPTHS UP TO 3'-6". VERTICAL DEPTH PAYMENT PER LINEAR FOOT INCLUDES DEPTHS IN EXCESS OF 3'-6".
 - A 6" PERFORATED CIRCULAR PIPE, FOR EROSION AND SEDIMENT CONTROL, SHALL BE PLACED IN THE INLET WALL AT ALL INLET SEDIMENT TRAPS AS SHOWN ON THE PLANS.
 - FOR USE IN NON-TRAFFIC LOCATIONS ONLY.

MODIFIED OPEN END GRATE
NOT TO SCALE

STORMDRAIN PROFILES
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)

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 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 410.561.2995



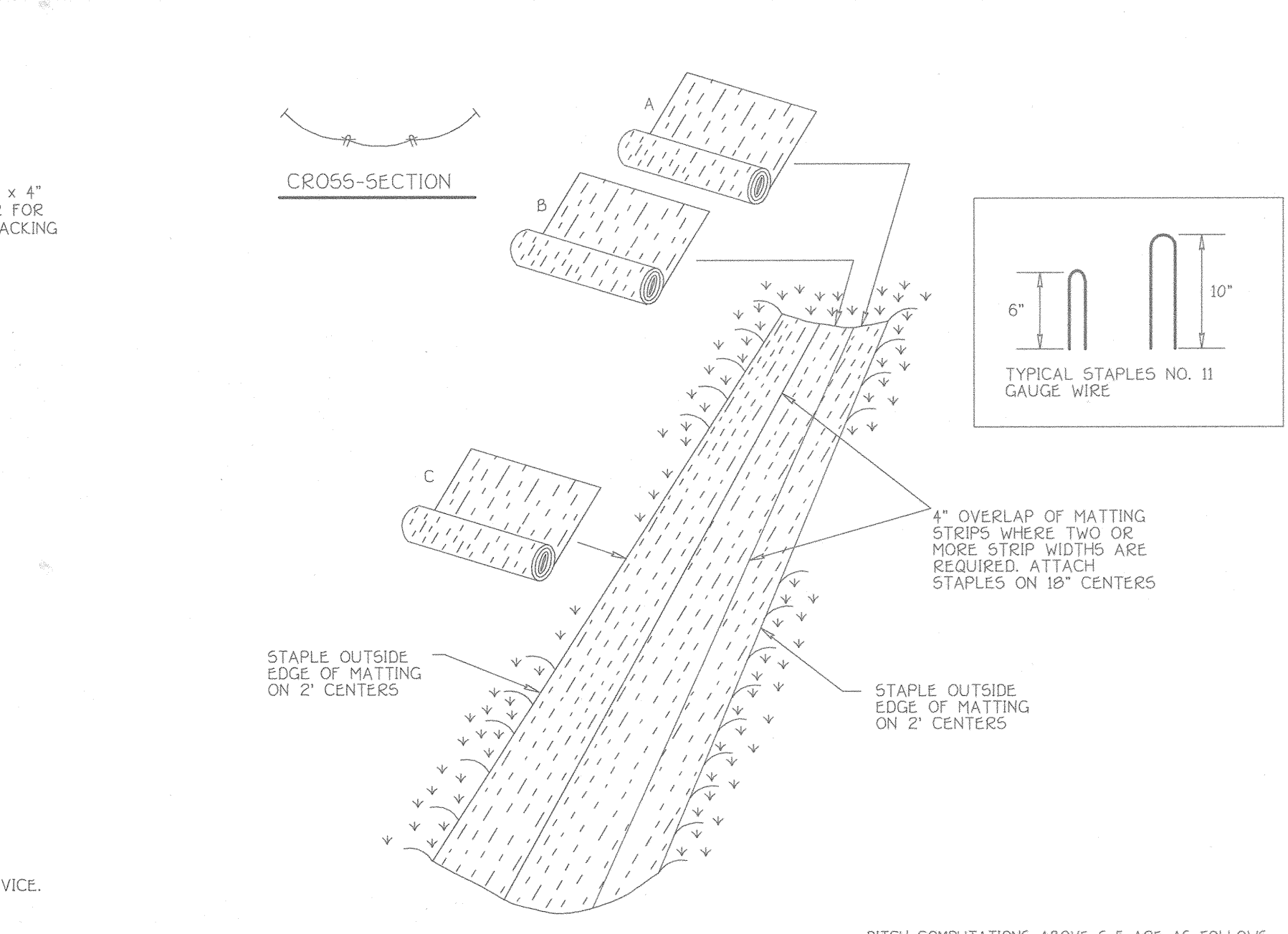
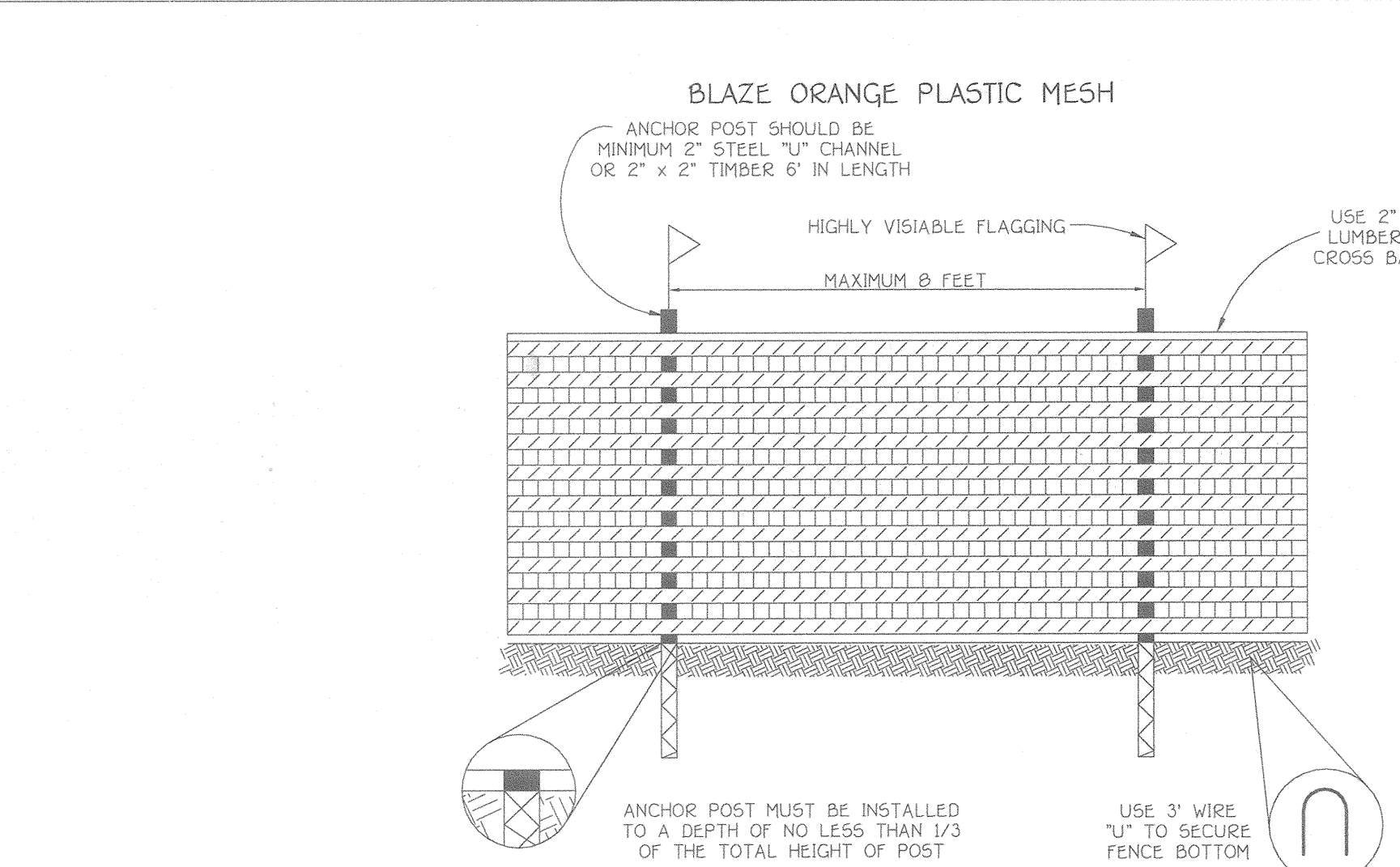
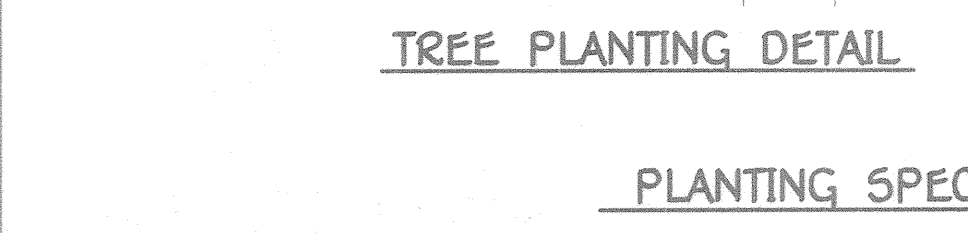
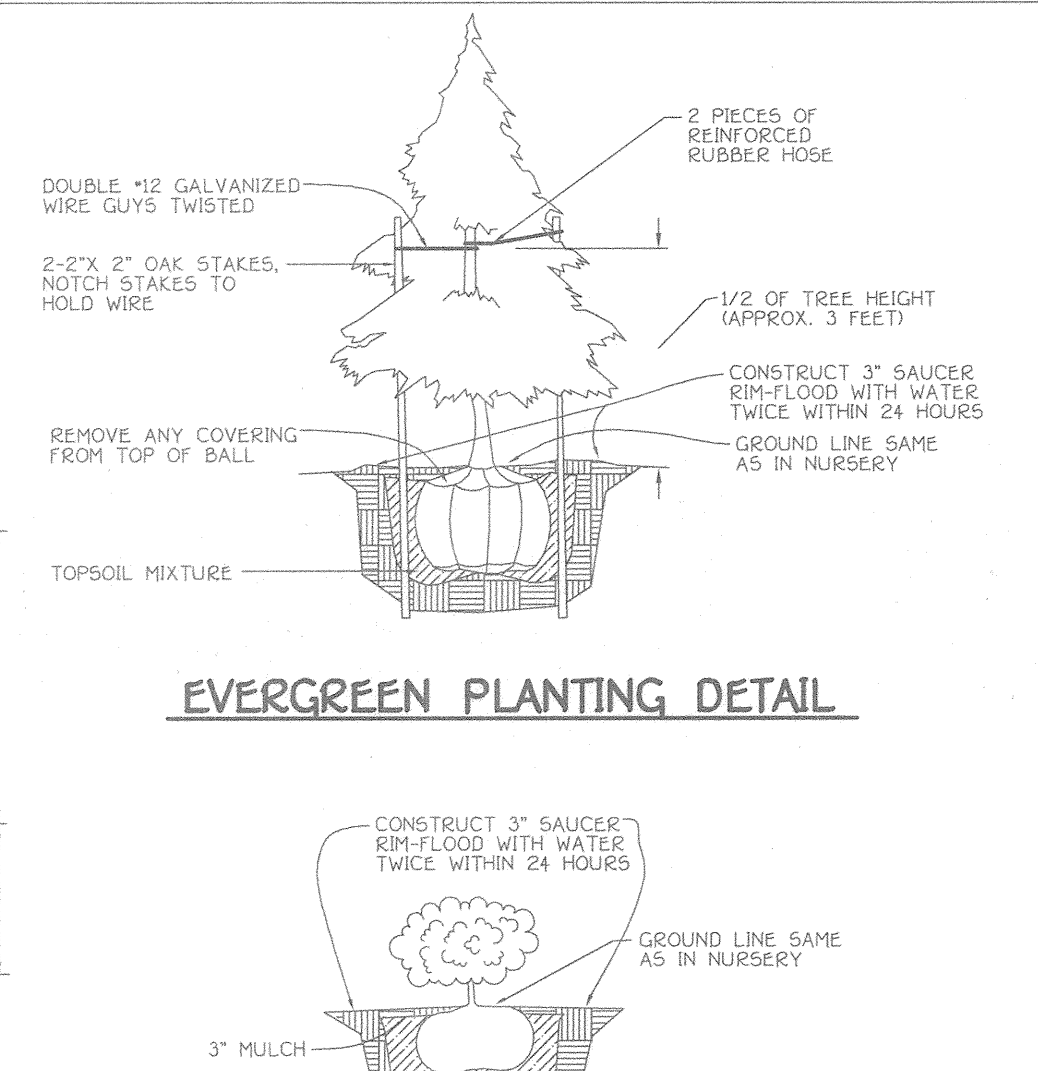
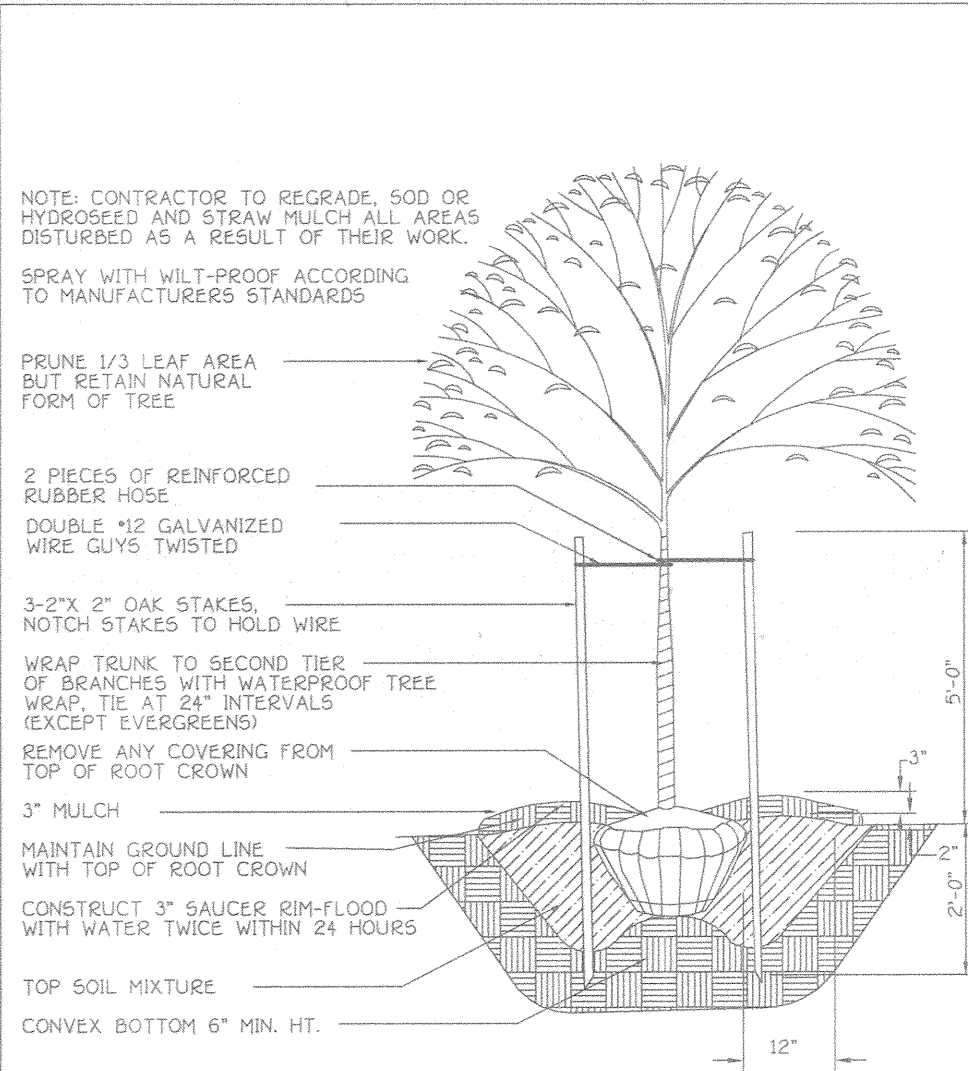
OWNERS

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ZONED: RR-DEO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 7 OF 13



PLANTING SPECIFICATIONS

Plants, related material and operations shall meet the detailed description as given on the plans and as described herein.

All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and shape shown on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring roots, sun scald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be freshly dug, no heeled-in plants from cold storage will be accepted.

Unless otherwise specified, all general conditions, planting operations, details and planting specification shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Area", hereinafter "Landscape Guidelines" approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of the Landscape Architect, latest edition, including all agenda.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and "Miss Utility" a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within the growing season of completion of site construction.

Bid shall be based on actual site conditions. No extra payment shall be made for work arising from site conditions differing from those indicated on drawings and specifications.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence.

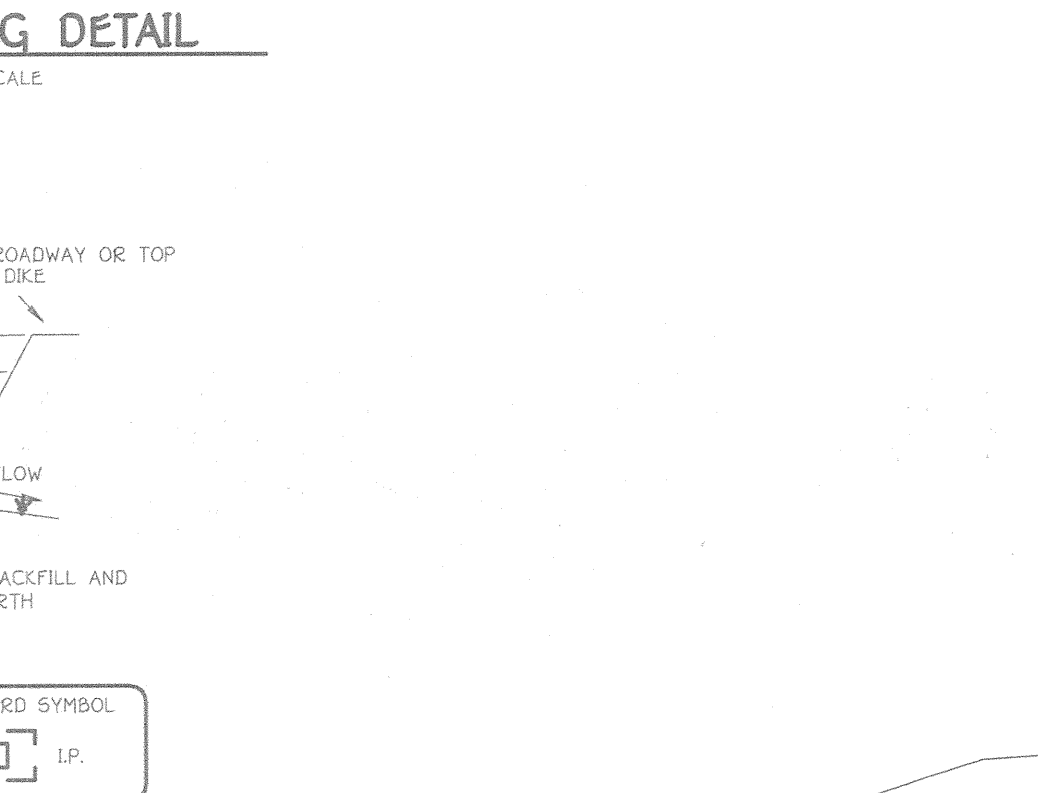
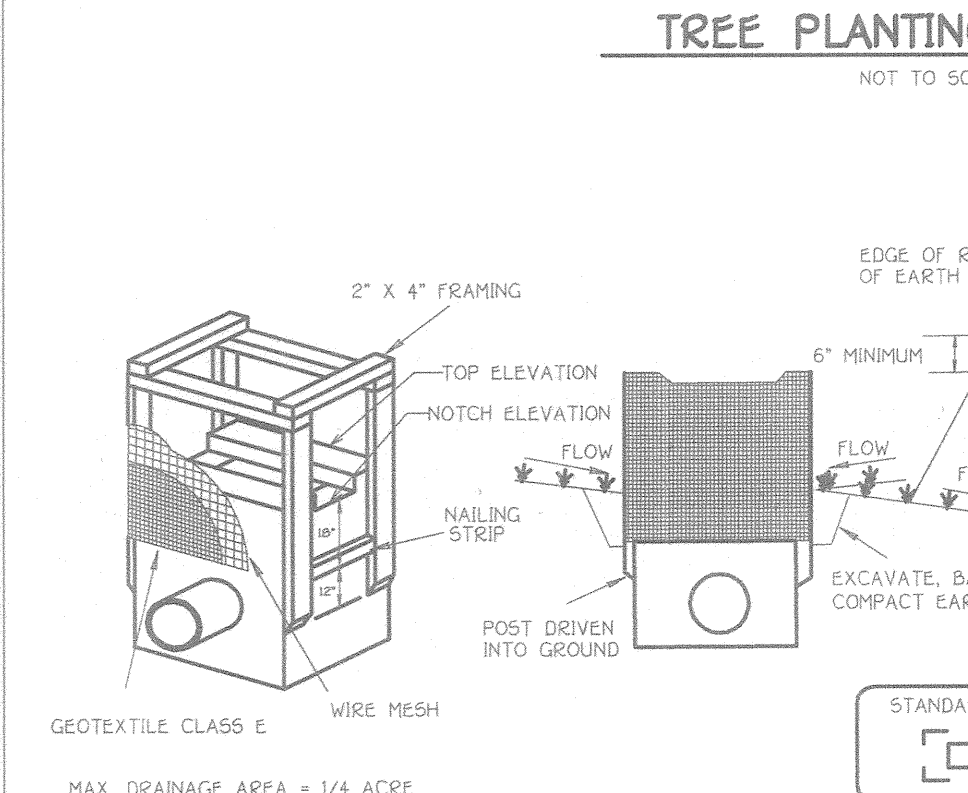
All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

Positive drainage shall be maintained in planting beds 2 percent slope.

Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - Two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded. This plan is intended for landscape use only. See other plan sheets for more information on grading, sediment control, layout, etc.



Construction Specifications

- Excavate completely around the inlet to a depth of 18" below the notch elevation.
- Drive the 2" x 4" construction grade lumber posts 1" into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (eave) must be 6" below adjacent roadways where flooding and safety issues may arise.
- Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.
- Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.
- Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.
- If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.
- The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

STANDARD INLET PROTECTION

NOT TO SCALE

BAFFLE DESIGN COMPS • S-1
 D = 150' D/2 = 75'
 A = 6,300
 We = A/D = 2/150 = 42"
 Le = 42x2 = 84' Req'd.
 CHECK Le/We > 2 = 150/42 = 3.57 > 2.0 OK

NOTES:

- FOREST PROTECTION DEVICE ONLY.
- RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
- ROOT DAMAGE SHOULD BE AVOIDED.
- PROTECTIVE SIGNAGE MAY ALSO BE USED.
- DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

Construction Specifications

- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2" apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area effected by the flow must be key-in.

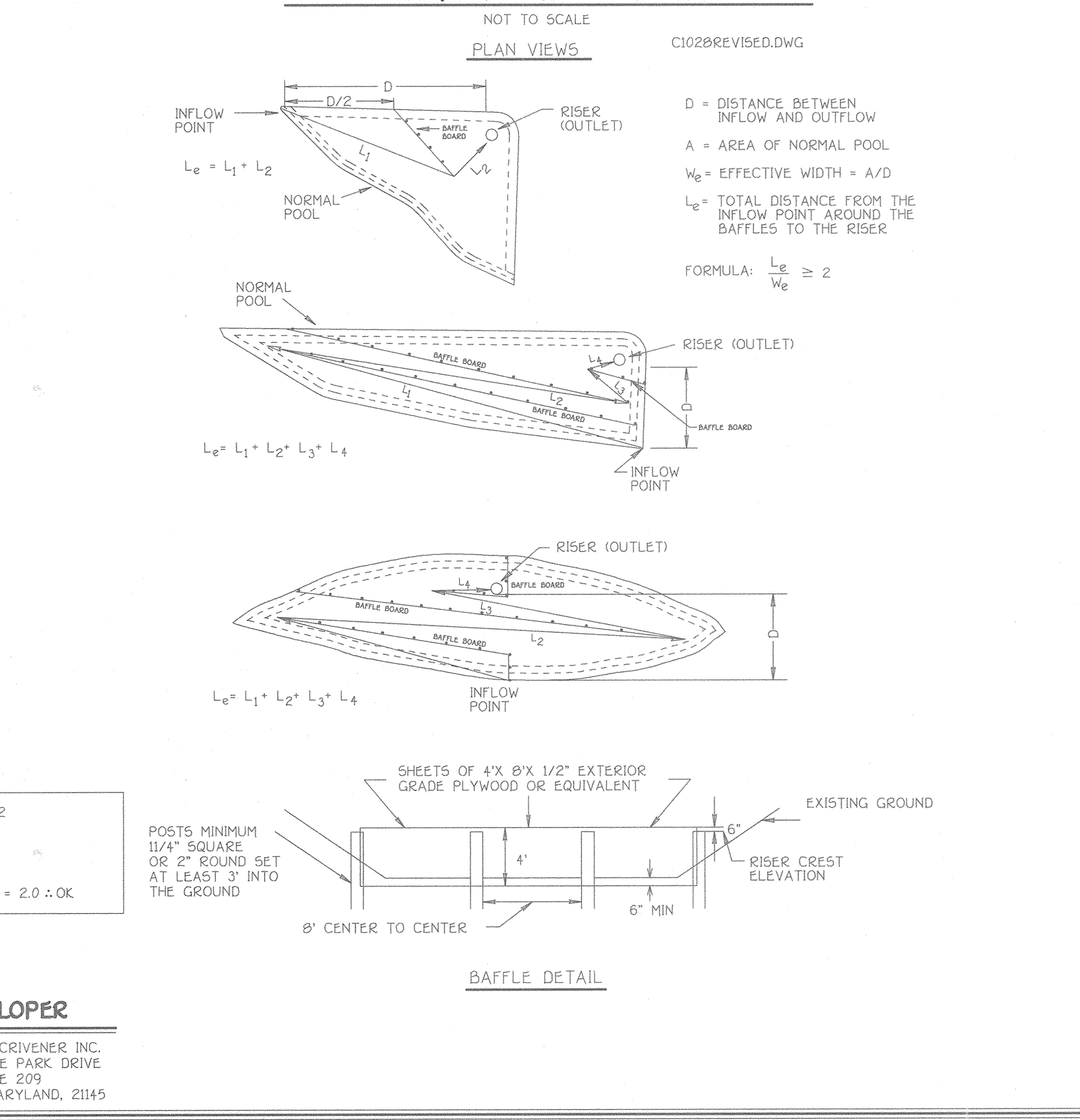
Construction Specifications

- The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent backfill material from entering the perforations.
- After installing the outer pipe, backfill around outer pipe with 2" aggregate or clean gravel.
- The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 12" and 36" in diameter. The perforations shall be 1/2" x 6" bits or 1" diameter holes 6" on center. The center pipe shall be wrapped with 1/2" hardware cloth first, then wrapped again with Geotextile Class C.
- The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

BAFFLE DESIGN COMPS • S-2
 D = 95' D/2 = 28'
 A = 6,300
 We = A/D = 2/55 = 115'
 Le = 115x2 = 230' Req'd.
 CHECK Le/We > 2 = 230/115 = 2.0 > 2.0 OK

Construction Specifications

DITCH COMPUTATIONS ABOVE 5-5 ARE AS FOLLOWS:
 25 YR. Q = 14.8 c.f.s.
 SIDE SLOPES = 7:1 OPPOSITE ROAD
 3:1 CLOSEST TO ROAD
 V' DITCH COMPUTATION:
 AREA = 2.18'
 WHERE: Z = 5:1 AVERAGE
 d = 0.38'
 AREA = 0.72 SQ.FT.
 WETTED PERIMETER = 3.89'
 R = A/WP = 0.72/3.89 = 0.1851'
 V = 1.486 R^{0.23} S^{1/2} =
 V = 1.486 x 0.1851^{0.23} x 0.029^{0.5}
 V = 2.04 f.p.s. *NON-EROSIVE



ENGINEER'S CERTIFICATE

I hereby certify that this Plan For Erosion And Sediment Control Represents A Workable Plan Based On My Personal Knowledge Of The Site And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

Signature: *[Signature]* Date: 9-27-05

DEVELOPER'S CERTIFICATE

I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary.

Signature Of Developer: *[Signature]* Date: 9/27/05

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements: *[Signature]* Date: 11/26/05

U.S.D.A. - Natural Resources Conservation Service

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District: *[Signature]* Date: 11/26/05

District: Howard Soil Conservation Dist.

Approved: Department Of Planning And Zoning: *[Signature]* Date: 12/7/05

Chief, Division Of Land Development: *[Signature]* Date: 12/16/05

Chief, Development Engineering Division: *[Signature]* Date: 12-1-05

Approved: Howard County Department Of Public Works: *[Signature]* Date: 12-1-05

Chief, Bureau Of Highways: *[Signature]* Date: 12-1-05

SEQUENCE OF CONSTRUCTION

PHASE ONE

- OBTAIN A GRADING PERMIT.
- NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-313-1330 24 HOURS BEFORE STARTING WORK.
- INSTALL ALL TREE PROTECTION FENCE FOR TREES TO BE UNDISTURBED AS INDICATED ON THE PLANS (1 DAY). INSTALL STABILIZED CONSTRUCTION ENTRANCE (3 DAYS)
- NOTE: THE FOLLOWING S.O.C. 4 - 5 SHALL OCCUR WITHIN A 5-DAY CLEAR WEATHER FORECAST WITH THE PERMISSION FROM INSPECTOR BEFORE PROCEEDING.
- INSTALL SILT FENCE, EARTH DRIES & MOUNTABLE BEES. INSTALL CULVERTS FROM 5-4 TO 5-5 AND GRADE IN DITCHES ALONG FOLLY QUARTER ROAD. GRADE ALONG FOLLY QUARTER ROAD FOR APPROPRIATE ROAD IMPROVEMENTS. RELOCATE ANY UTILITY POLES IF NECESSARY. SAW CUT FOLLY QUARTER ROAD AND INSTALL PAVING SECTION PER APPROPRIATE IMPROVEMENTS. (2 WEEKS)
- NOTE: CONTRACTOR TO STABILIZE ANY DISTURBED AREA BY THE END OF EACH DAY WITH TOPSOIL, E.C.M. AND PERMANENT SEED MIX.
- WORKING DOWNSTREAM TO UPSTREAM BEGIN STORM DRAIN CONSTRUCTION FROM CONNECTION TO EXISTING TRIPLE CELL CULVERT UP TO 1-6. REMOVE THE EXISTING 18" CULVERT UNDER FOLLY QUARTER ROAD WHEN WORK REACHES VICINITY OF M-3. INSTALL INLET.
- RECEIVE PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR PRIOR TO PROCEEDING.

PHASE TWO

- CLEAR & GRUB FOR SEDIMENT BASIN/SWM POND. INSTALL SEDIMENT BASIN/SWM POND WITH OUTFALL TO 1-6 AND SILT FENCE AS INDICATED ON THE PLANS. NO BLASTING WILL BE PERMITTED FOR THE EXCAVATION OF SEDIMENT BASIN/SWM POND EMBANKMENT. WHERE NECESSARY, GRIPPING AND JACK HAMMING SHOULD BE UTILIZED IN THE EXCAVATION OF THE FACILITY. (2 WEEKS)
- CLEAR AND GRUB THE REMAINDER OF THE SITE. (3 DAYS)
- GRADE SITE TO THE PROPOSED SUB-GRADE AND INSTALL THE STORM DRAIN SYSTEMS. STABILIZE ALL SLOPES IMMEDIATELY UPON COMPLETION OF GRADING. INSTALL 5-1 THRU 1-2 & 5-2 THRU 1-5. GRADE DITCH AT REAR OF LOT 4 & ON THE EAST SIDE OF LOT 4 AS SHOWN ON THE PLANS. DO NOT BLOCK INLETS AS STORM DRAIN SYSTEM WILL BE USE TO CONVEY SEDIMENT TO BASIN. (2 WEEKS)
- CONSTRUCT ROAD BASE COURSE FOR INTERNAL SUBDIVISION ROAD. (1 WEEK)
- WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES AND THE POND HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED AND/OR BACKFILLED AND THE REMAINING AREAS BROUGHT TO FINAL DESIGN GRADE. STABILIZE ALL REMAINING AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 WEEKS)
- NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.

NOTE:

THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS. REMOVE SEDIMENT FROM THE POND WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED. ALL SEDIMENT MUST BE PLACED UPSTREAM OF THE APPROVED TRAPPING DEVICE.

SEDIMENT CONTROL NOTES AND DETAILS

BUCKSKIN OAKS

LOTS 1 THRU 4, OPEN SPACE LOT 5, BUILDABLE PRESERVATION PARCEL 'A' AND NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C' (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)

ZONED: RR-DEO

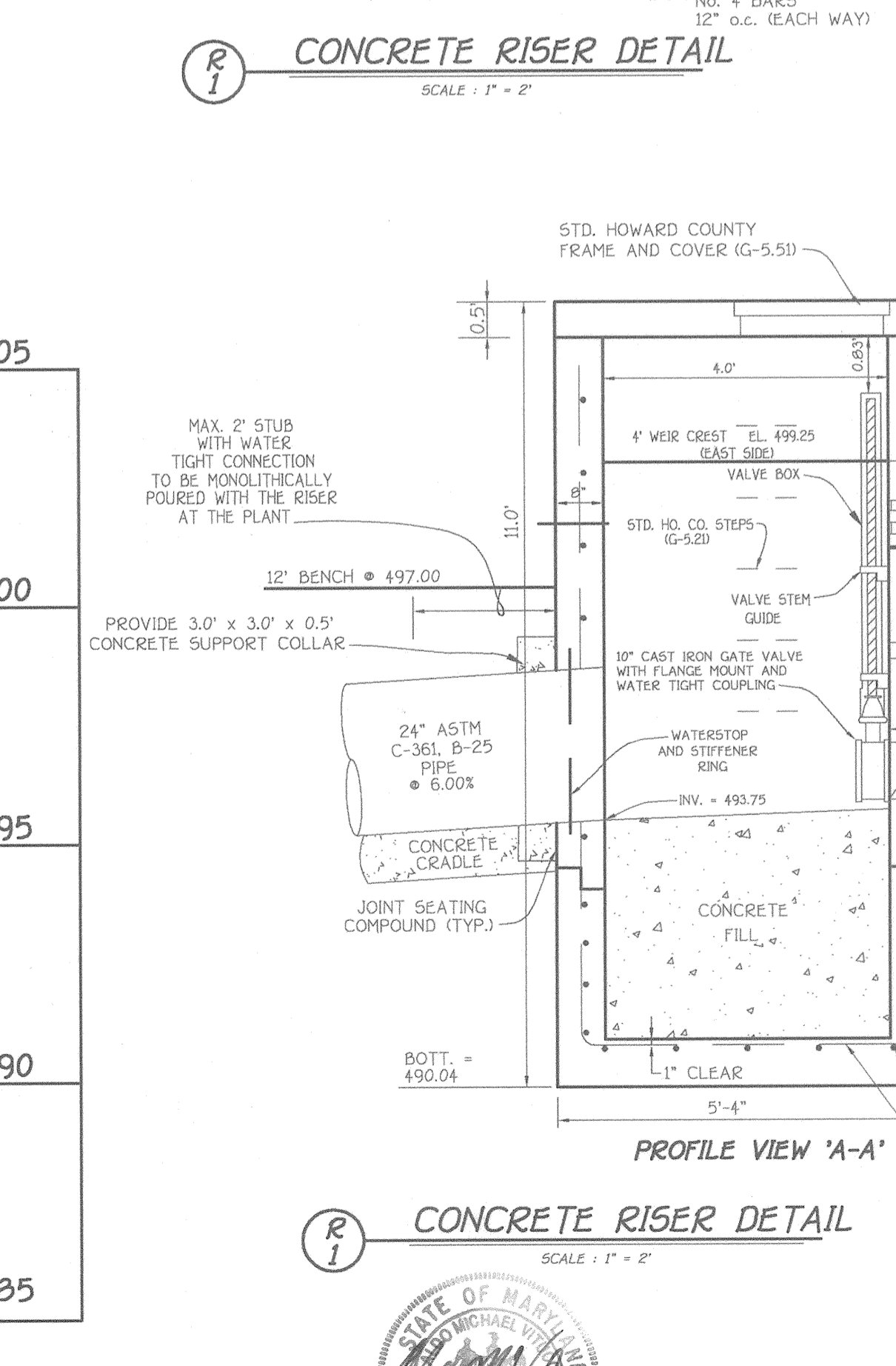
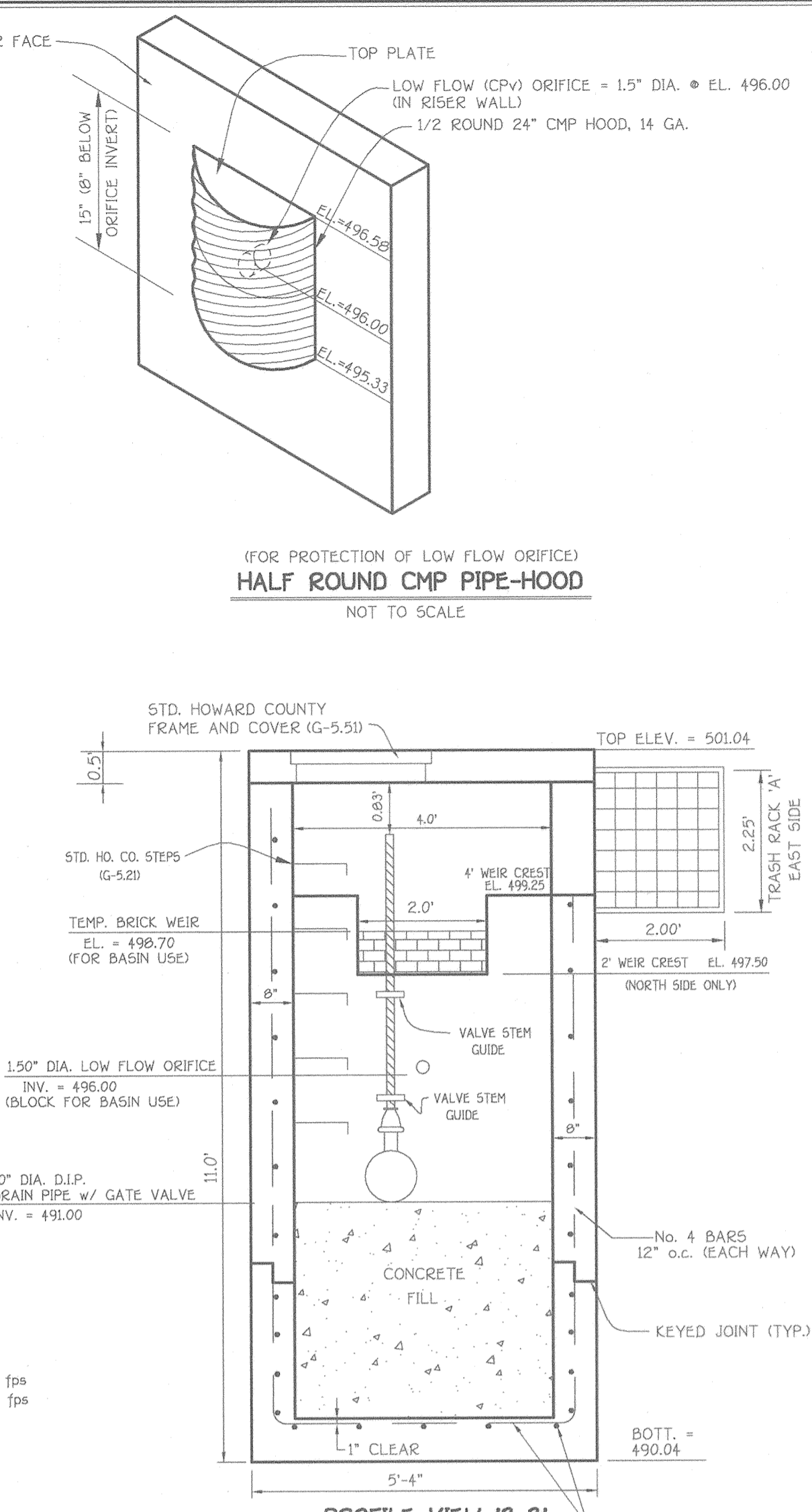
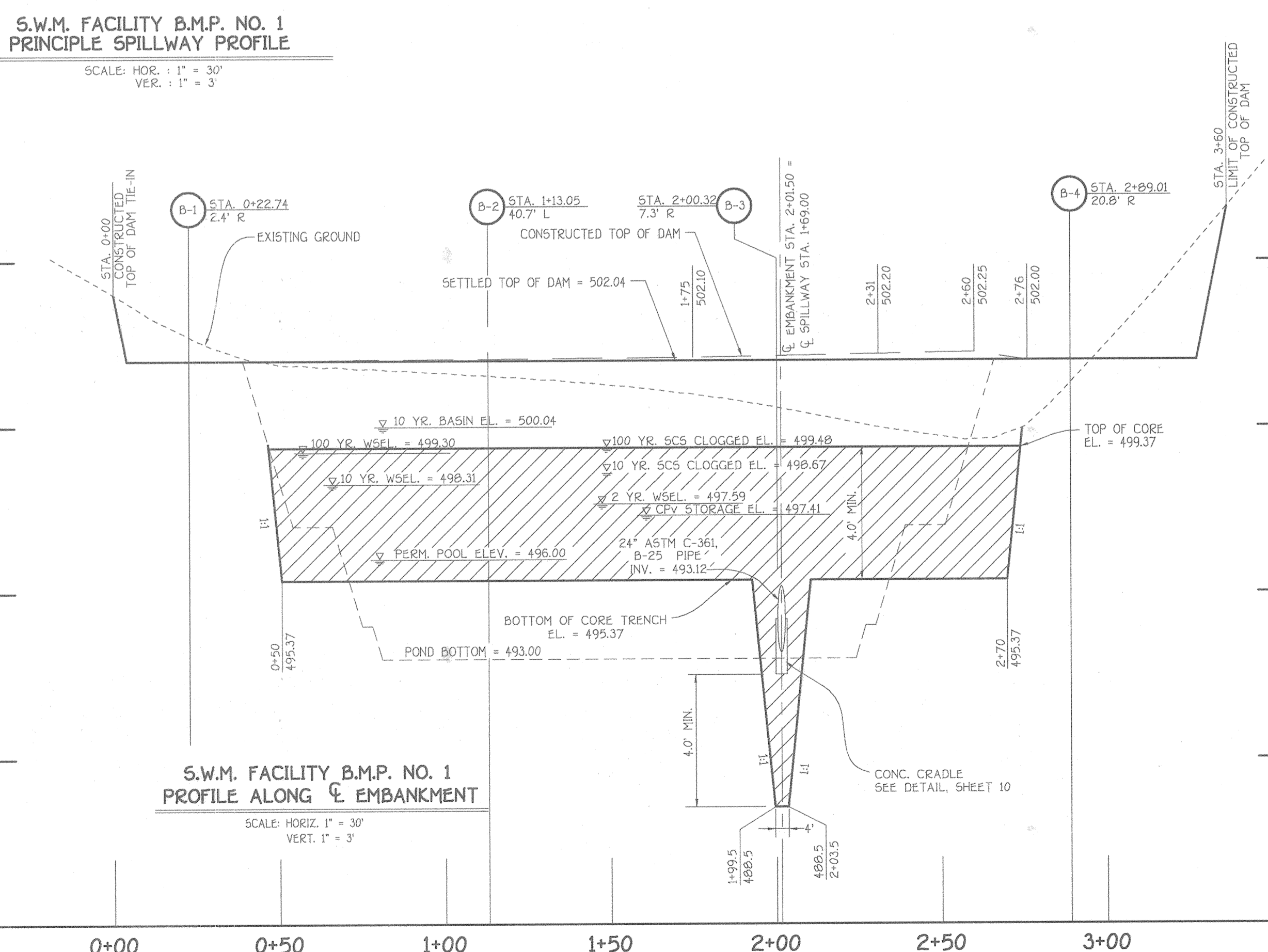
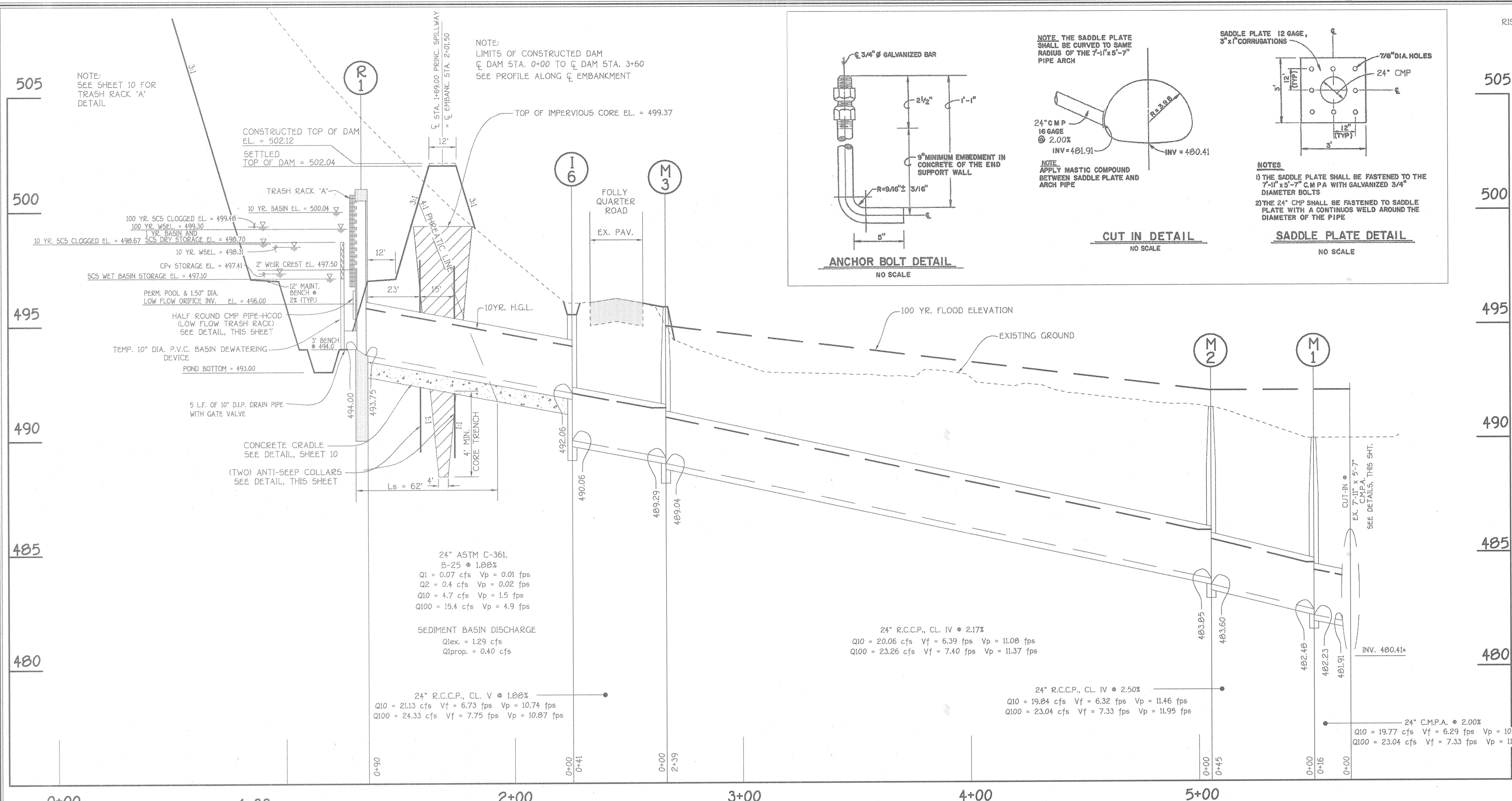
TAZ MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE: JUNE 20, 2005

SHEET 9 OF 13

F 05-61



FISHER, COLLINS & CARTER, INC.
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8808 CENTRE PARK DRIVE
SUITE 209
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STATE OF MARYLAND
Professional Engineer
No. 1074
J. Thomas Scrivener, Inc.

STORMWATER MANAGEMENT PROFILES & DETAILS
BUCKSKIN OAKS
LOTS 1 THRU 4, OPEN SPACE LOT 5,
BUILDABLE PRESERVATION PARCEL 'A' AND
NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
(A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 1)
TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: JUNE 20, 2005
SHEET 11 OF 13

By The Developer:
I/We Certify That All Development And/Or Construction Will Be Done According To These Plans, And That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of The Environment Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Shall Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion. I Also Authorize Periodic On-Site Inspections By The Howard Soil Conservation District.

Signature Of Developer: *William Gray* Date: 9/12/05
Printed Name Of Developer: William Gray

By The Engineer:
I Certify That All Development And/Or Construction, Erosion And Sediment Control Represents A Practical Application Of My Personal Knowledge Of The Site Conditions. This Plan Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District. I Have Reviewed The Plans And I Certify That The Plans Must Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion.

Signature Of Engineer: *Alvin M. Williams* Date: 9/27/05
Printed Name Of Engineer: Alvin M. Williams

These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Soil Erosion And Sediment Control.

USDA-Natural Resources Conservation Service Date: 11/22/05
Signature: *Jim Lynn*

These Plans For Small Pond Construction, Soil Erosion And Sediment Control Meet The Requirements Of The Howard Soil Conservation District.

Signature: *John Kelly* Date: 11/22/05
Printed Name Of Engineer: John Kelly

Approved: Department Of Public Works Date: 12-1-05
Signature: *William Z. ...*
Chief, Bureau Of Highways

Approved: Department Of Planning And Zoning Date: 12/7/05
Signature: *Andy ...*
Chief, Division Of Land Development

Signature: *...* Date: 12/10/05
Chief, Development Engineering Division

AS-BUILT CERTIFICATION
I Herby Certify That The Facility Shown On This Plan Was Constructed As Shown On The "As-Built" Plans And Meets The Approved Plans And Specifications.

Signature: _____ P.E. No. _____
Date: _____

Certify Means To State Or Declare A Professional Opinion Based Upon On-Site Inspections And Material Tests Which Are Conducted During Construction. The On-Site Inspections And Material Tests Are Those Inspections And Tests Deemed Sufficient And Appropriate Commonly Accepted Engineering Standards. Certify Does Not Mean Or Imply A Guarantee By The Engineer Nor Does An Engineer's Certification Believe Any Other Party From Meeting Requirements Imposed By Contract, Employment, Or Other Means, Including Meeting Commonly Accepted Industry Practices.

NOTES:
1. SEE SHEET 10 FOR TRASH RACK 'A' DETAIL
2. SEE SHEET 10 FOR RISER PLAN VIEW AND TOP SLAB DETAIL

Approved: Department Of Public Works
William E. White Jr. 12-1-05
 Chief, Bureau Of Highways Date

Approved: Department Of Planning And Zoning
Cindy Hammett 12/7/05
 Chief, Division Of Land Development Date

Mike Damunsky 12/6/05
 Chief, Development Engineering Division Date



LEGEND

- FOREST CONSERVATION SIGNAGE
- TREE PROTECTION FENCE
- FOREST CONSERVATION AREA TO BE PLANTED
- FOREST CONSERVATION EASEMENT

**FOREST CONSERVATION PLAN
 BUCKSKIN OAKS**
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)

ZONED: RR-DEO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 12 OF 13

OWNERS

J. DAVID MULLINX
 ELIZABETH C. MULLINX
 14420 HOWARD ROAD
 DAYTON, MARYLAND, 21036

PATRICIA LEE SCHWARZ
 13384 FOLLY QUARTER ROAD
 ELLICOTT CITY, MARYLAND, 21042-1247

DEVELOPER

J. THOMAS SCRIVENER INC.
 8808 CENTRE PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21145

PLAN
 SCALE: 1" = 50'

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 2872 BALTIMORE NATIONAL PKY
 ELLICOTT CITY, MARYLAND 21114
 410.481.2895

Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS

MD DNR Qualified Professional
 USACE Registered Designer
 Certification # WD-P93M0610044B
John P. Canoles
 JOHN P. CANOLES

FCE Planting Area # 1 - 0.5 acres

Planting units required: 350
Planting units proposed: 350.5

QTY	Species	Size	Spacing	Total Units
1	Acer rubrum - Red maple	1" cal.	15' o.c.	
2	Quercus alba - White oak	1" cal.	15' o.c.	
3	Total 1" caliper trees (3.5 planting units per tree)	FCA unit credit		10.5
25	Acer rubrum - Red maple	2-3" whip	11' o.c.	
5	Cercis canadensis - Red bud	2-3" whip	11' o.c.	
5	Cornus florida - Flowering dogwood	2-3" whip	11' o.c.	
35	Liriodendron tulipifera - Tulip poplar	2-3" whip	11' o.c.	
30	Prunus serotina - Black cherry	2-3" whip	11' o.c.	
25	Robinia pseudo-acacia - Black locust	2-3" whip	11' o.c.	
20	Quercus alba - White oak	2-3" whip	11' o.c.	
25	Viburnum prunifolium - Blackhaw	2-3" whip	11' o.c.	
170	Total whip plantings (2 planting units per tree)	FCA unit credit		340
		Total Unit Credit		350.5

FCE Planting Area # 2 - 0.2 acres

Planting units required: 140
Planting units proposed: 142.5

QTY	Species	Size	Spacing	Total Units
1	Acer rubrum - Red maple	1" cal.	15' o.c.	
2	Quercus alba - White oak	1" cal.	15' o.c.	
3	Total 1" caliper trees (3.5 planting units per tree)	FCA unit credit		10.5
10	Acer rubrum - Red maple	2-3" whip	11' o.c.	
3	Cercis canadensis - Red bud	2-3" whip	11' o.c.	
3	Cornus florida - Flowering dogwood	2-3" whip	11' o.c.	
10	Liriodendron tulipifera - Tulip poplar	2-3" whip	11' o.c.	
10	Prunus serotina - Black cherry	2-3" whip	11' o.c.	
10	Robinia pseudo-acacia - Black locust	2-3" whip	11' o.c.	
10	Quercus alba - White oak	2-3" whip	11' o.c.	
10	Viburnum prunifolium - Blackhaw	2-3" whip	11' o.c.	
66	Total whip plantings (2 planting units per tree)	FCA unit credit		132
		Total Unit Credit		142.5

Planting Notes -

Whip plantings to be spaced on 11 foot centers, shelters will be required as per Howard County policy. Plantings should be installed in rows to facilitate future maintenance. The planting rows should be created in a curvilinear fashion to avoid a grid appearance.
One inch caliper plants should be installed along edge of planting area to serve as demarcation of boundary. Spacing should be approximately 15 feet.

Planting/Soil Specifications

- Installation of bareroot plant stock shall take place between March 15 - April 20; b&b/container stock March 15 - May 30 or September 15 - November 15. Fall planting of B&B stock is not recommended.
- Disturbed areas shall be seeded and stabilized as per general construction plan for project. Planting areas not impacted by site grading shall have no additional topsoil installed.
- Bareroot plants shall be installed so that the top of root mass is level with the top of existing grade. Roots shall be dipped in an anti-desiccant gel prior to planting. Backfill in the planting pits shall consist of 3 parts existing soil to 1 part pine fines or equivalent.
- Fertilizer shall consist of Agriform 22-0-2, or equivalent, applied as per manufacturer's specifications, for woody plants. Herbaceous plants shall be fertilized with Osmocote 0-6-12.
- Plant material shall be transported to the site in a tarped or covered truck. Plants shall be kept moist prior to planting.
- All non-organic debris associated with the planting operation shall be removed from the site by the contractor.

Sequence of Construction

- Sediment control shall be installed in accordance with general construction plan for site.
- Plants shall be installed as per Plant Schedule and the Planting/Soil Specifications for the project.
- Upon completion of the planting, signage shall be installed as shown.
- Plantings shall be maintained and guaranteed in accordance with the Maintenance and Guarantee requirements for project.

Maintenance of Plantings

- Maintenance of plantings shall last for a period of 2 years.
- Plantings must receive 2 gallons of water, either through precipitation or watering, weekly during the 1st growing season, as needed. During second growing season, once a month during May-September, if needed.
- Invasive exotics and noxious weeds will be removed, as required, from planting areas mechanically and/or with limited herbicide application (see groundcover note where appropriate). Old field successional species will be retained.
- Plants will be examined a minimum two times during the growing season for serious plant pests and diseases. Serious problems will be treated with the appropriate agent.
- Dead branches will be pruned from plantings.

Guarantee Requirements

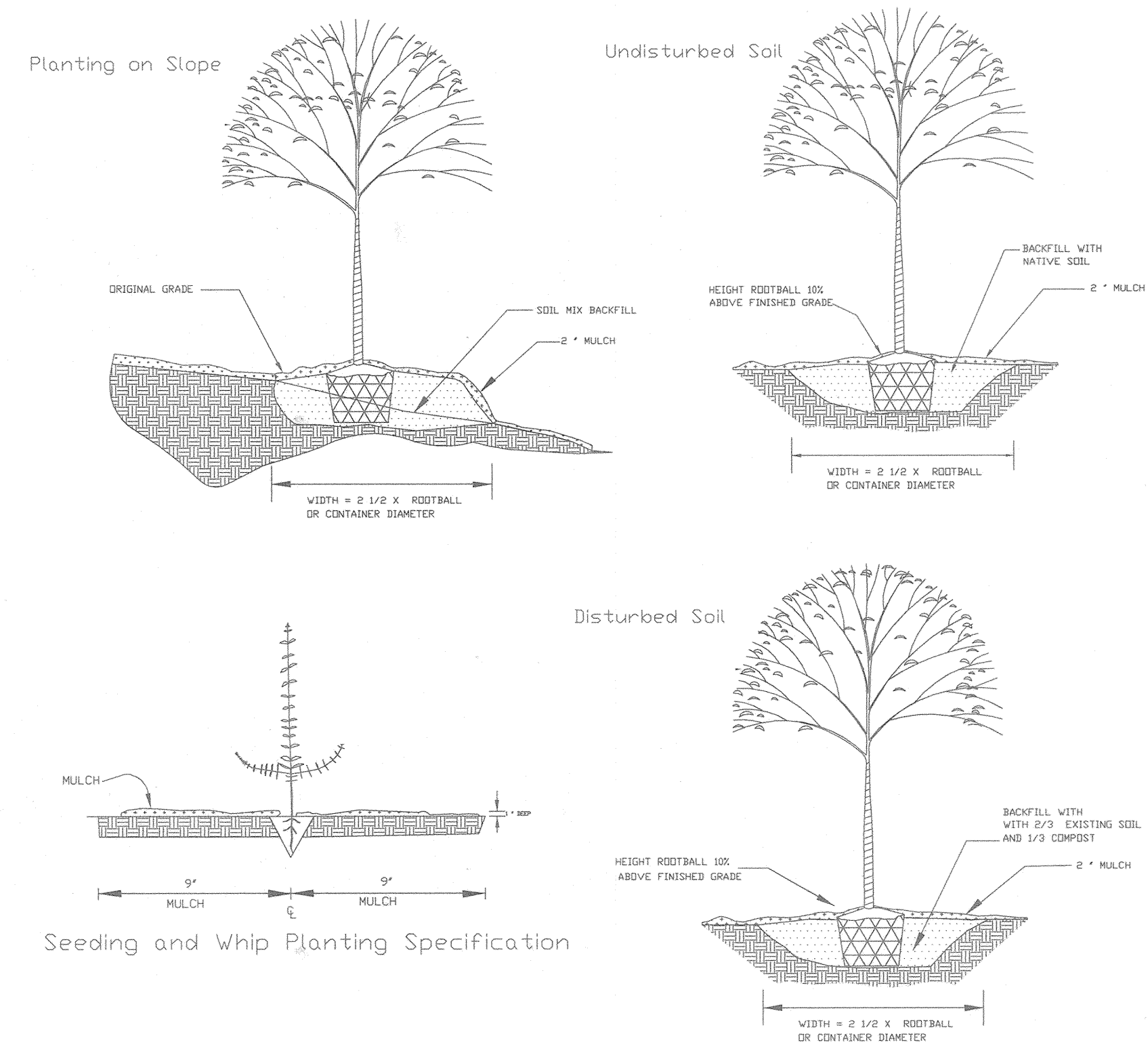
- A 75 percent survival rate of forestation plantings will be required at the end of 2 growing seasons. All plant material below the 75 percent threshold will be replaced at the beginning of the next growing season. Wild trees arising from natural regeneration may be counted up to 50 percent towards the total survival number if they are healthy, native species at least 12 inches tall.

Surety for Forestation

- The developer shall post a surety (bond, letter of credit) to ensure that forestation plantings are completed.

Planting Notes

When possible, plants shall be installed within 24 hours of delivery. If installation cannot be performed within this time frame, plant stock shall be watered and protected from desiccation.
Application of herbicide, Round-up or equivalent, may be used to reduce plant competition from old field successional growth at the time of installation. Mowing, re-application of herbicide, or a combination thereof, may be used to control unwanted, competing vegetation.
Planting shall be installed within one year or two growing seasons of subdivision approval. Plantings shall be installed in accordance with the time schedule included in Note 1 of the planting /seeding specifications.



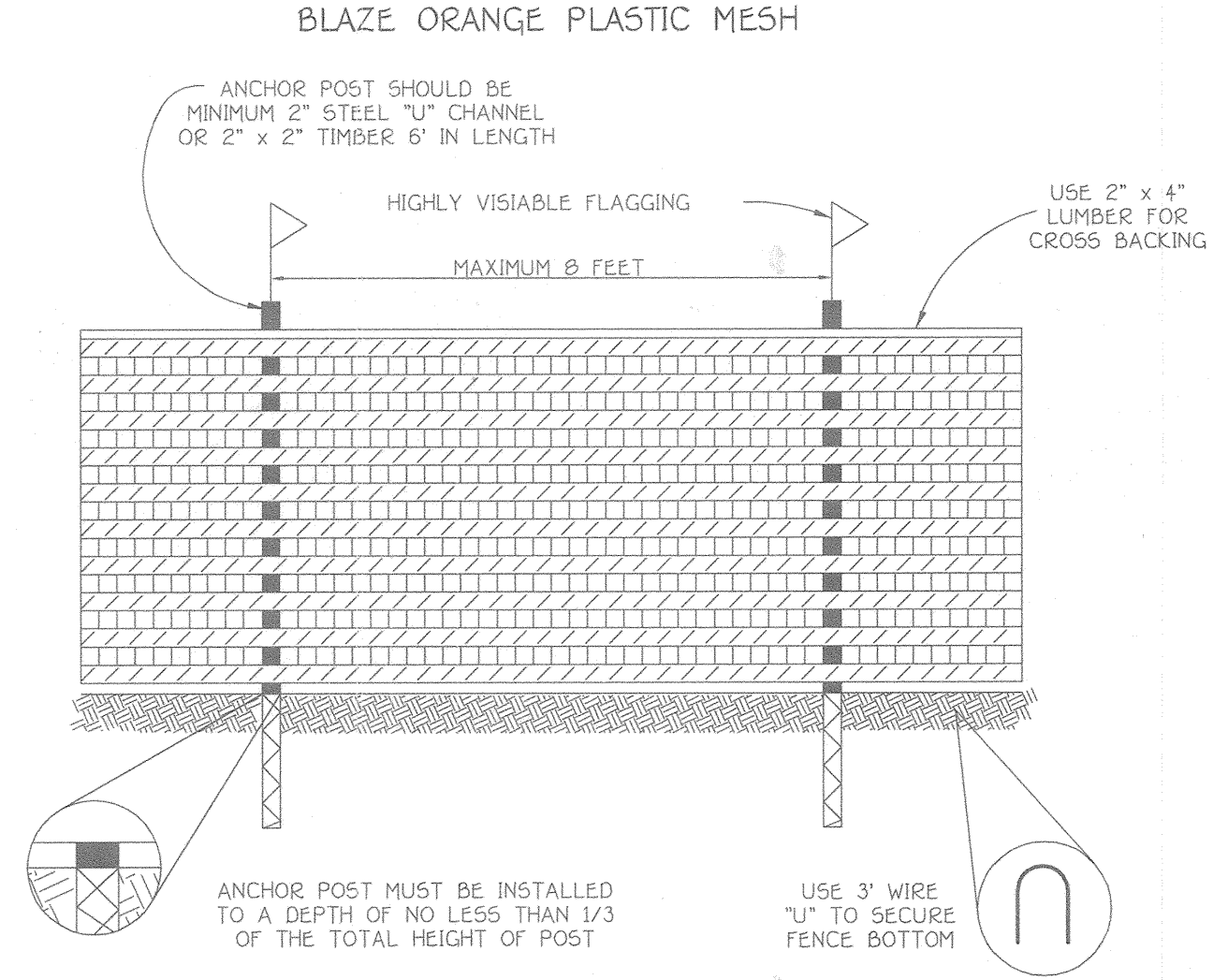
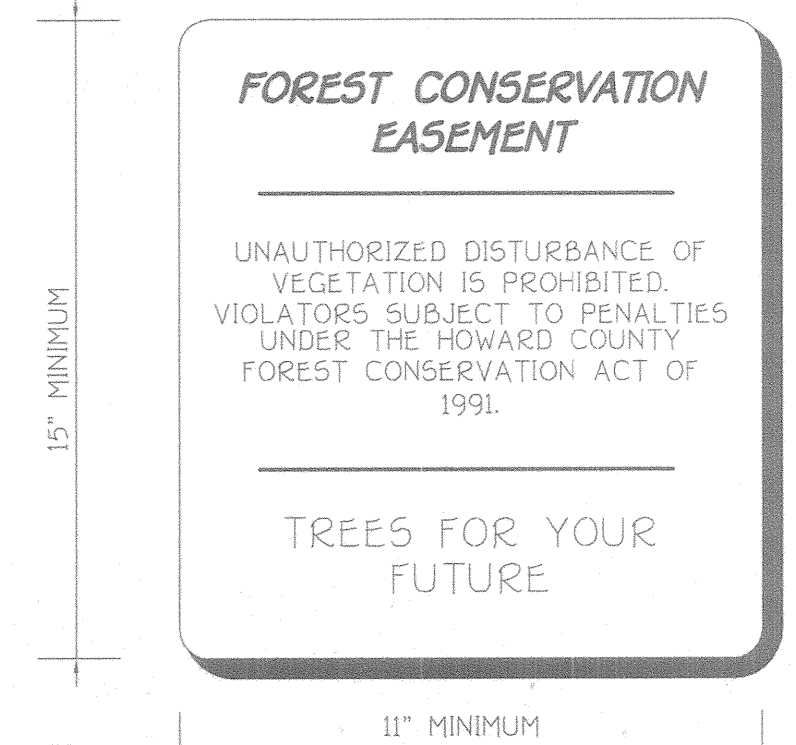
CONTAINER GROWN AND B & B PLANTING TECHNIQUES

Approved Department Of Public Works
 Chief Bureau of Highways *Walter F. White* 12-1-05
 Date
 Approved Department Of Planning And Zoning
 Chief, Division of Land Development *Cindy Hamrick* 12/7/05
 Date
 Chief, Development Engineering Division *Chris Williamson* 12/16/05
 Date

FCP NOTES

- ANY FOREST CONSERVATION EASEMENT (FCE) AREA SHOWN HEREON IS SUBJECT TO PROTECTIVE COVENANTS WHICH MAY BE FOUND IN THE LAND RECORDS OF HOWARD COUNTY WHICH RESTRICT THE DISTURBANCE AND USE OF THESE AREAS.
- THE FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 161200 OF THE HOWARD COUNTY CODE, FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENTS, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO AREAS OUTSIDE THE LIMIT OF TEMPORARY FENCING OR THE FCE BOUNDARY, WHICHEVER IS GREATER.
- THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST CONSERVATION EASEMENT, EXCEPT AS PERMITTED BY HOWARD COUNTY DPZ.
- NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS DESIGNATED AS FOREST CONSERVATION EASEMENTS.
- TEMPORARY FENCING SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. THE FENCING SHALL BE PLACED ALONG ALL FCE BOUNDARIES WHICH OCCUR WITHIN 15 FEET OF THE PROPOSED LIMITS OF DISTURBANCE.
- PERMANENT SIGNAGE SHALL BE PLACED 50' - 100' APART ALONG BOUNDARIES OF ALL AREAS INCLUDED IN FOREST CONSERVATION EASEMENTS.
- THE FOREST CONSERVATION OBLIGATIONS INCURRED BY THIS SITE DEVELOPMENT PLAN HAVE BEEN MET THROUGH THE RETENTION, IN AN EASEMENT, OF 1.6 ACRES OF EXISTING FOREST AND THE FORESTATION OF 0.7 ACRES OF FOREST. A TOTAL OF 2.3 ACRES OF FOREST CONSERVATION EASEMENTS WILL BE CREATED FOR THIS PROJECT.
TOTAL FOREST CONSERVATION EASEMENT AREA = 2.3 ACRES FOR A TOTAL FOREST SURETY OF \$29,185.20.

ON-SITE SIGNAGE



- NOTES:
- FOREST PROTECTION DEVICE ONLY.
 - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 - ROOT DAMAGE SHOULD BE AVOIDED.
 - PROTECTIVE SIGNAGE MAY ALSO BE USED.
 - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION DETAIL

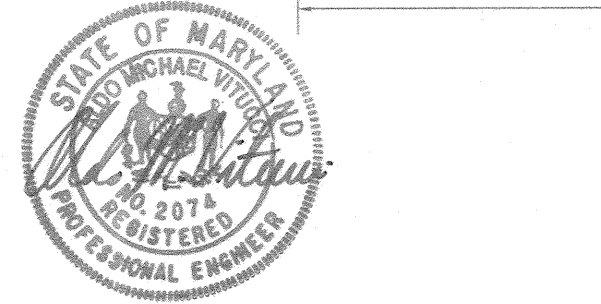
NOT TO SCALE

FOREST CONSERVATION WORKSHEET VERSION 1.0

BASIC SITE DATA:	
A. TOTAL TRACT AREA.....*	11.5
B. AREA WITHIN 100 YEAR FLOODPLAIN.....*	0.0
C. AREA TO REMAIN IN AGRICULTURAL PRODUCTION.....*	0.0
D. NET TRACT AREA.....*	11.5
LAND USE CATEGORY: RC-DEO	
INFORMATION FOR CALCULATIONS:	
E. AFFORESTATION THRESHOLD.....*	20% x D = 2.3
F. FOREST CONSERVATION THRESHOLD.....*	25% x D = 2.9
EXISTING FOREST COVER:	
G. EXISTING FOREST COVER (EXCLUDING FLOODPLAIN).....*	1.6
H. AREA OF FOREST ABOVE CONSERVATION THRESHOLD.....*	0.0
I. BREAK EVEN POINT:.....*
J. TOTAL AREA OF FOREST TO BE CLEARED.....*	0.0
K. TOTAL AREA OF FOREST TO BE RETAINED.....*	1.6
AFFORESTATION CALCULATIONS:	
L. NO FOREST CLEARING (afforestation threshold - existing forest).....*	0.7

FOREST CONSERVATION NOTES AND DETAILS
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINIX PROPERTY, PLAT NO. 14449)

ZONED: RR-DEO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 13 OF 13



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 4101 461 - 2855

Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS

MD DNR Qualified Professional
 USACOE Wetland Designer
 Certification # WD020315060100448
J. P. Canoles
 JOHN P. CANOLES

OWNERS
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 ELIZABETH C. MULLINIX
 14420 HOWARD ROAD
 DAYTON, MARYLAND, 21036
 PATRICIA LEE SCHWARZ
 13304 FOLLY QUARTER ROAD
 ELLICOTT CITY, MARYLAND, 21042-1247

DEVELOPER
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 8808 CENTRE PARK DRIVE
 SUITE 209
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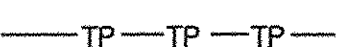

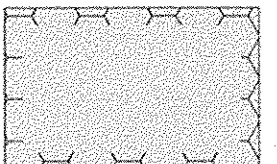
Approved: Department Of Public Works
William T. White Jr. 12-1-05
 Chief, Bureau Of Highways Date

Approved: Department Of Planning And Zoning
Cindy Hammett 12/7/05
 Chief, Division Of Land Development SA Date

W. Damun 12/6/05
 Chief, Development Engineering Division Date

No.	Revision	Date
1	Revise storm drain from 1-6 to the Ex. 7'-11" x 5'-7" C.M.P.A.	7-19-06

LEGEND

-  FOREST CONSERVATION SIGNAGE
-  TREE PROTECTION FENCE
-  FOREST CONSERVATION AREA AREA TO BE PLANTED
-  FOREST CONSERVATION EASEMENT

**FOREST CONSERVATION PLAN
 BUCKSKIN OAKS**
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 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 12 OF 13

PLAN

SCALE: 1" = 50'

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 ELIZABETH C. MULLINX
 1420 HOWARD ROAD
 DAYTON, MARYLAND, 21036

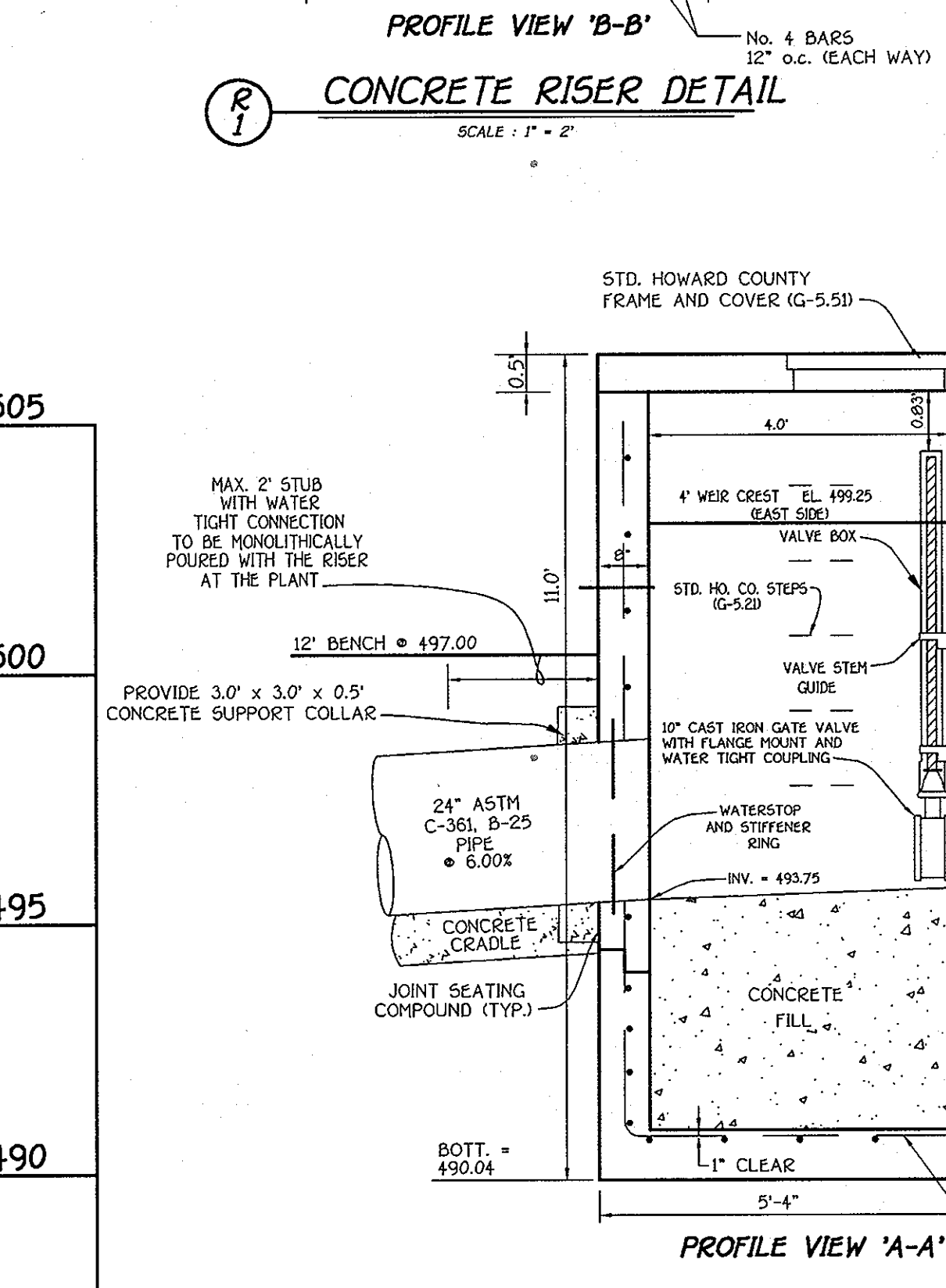
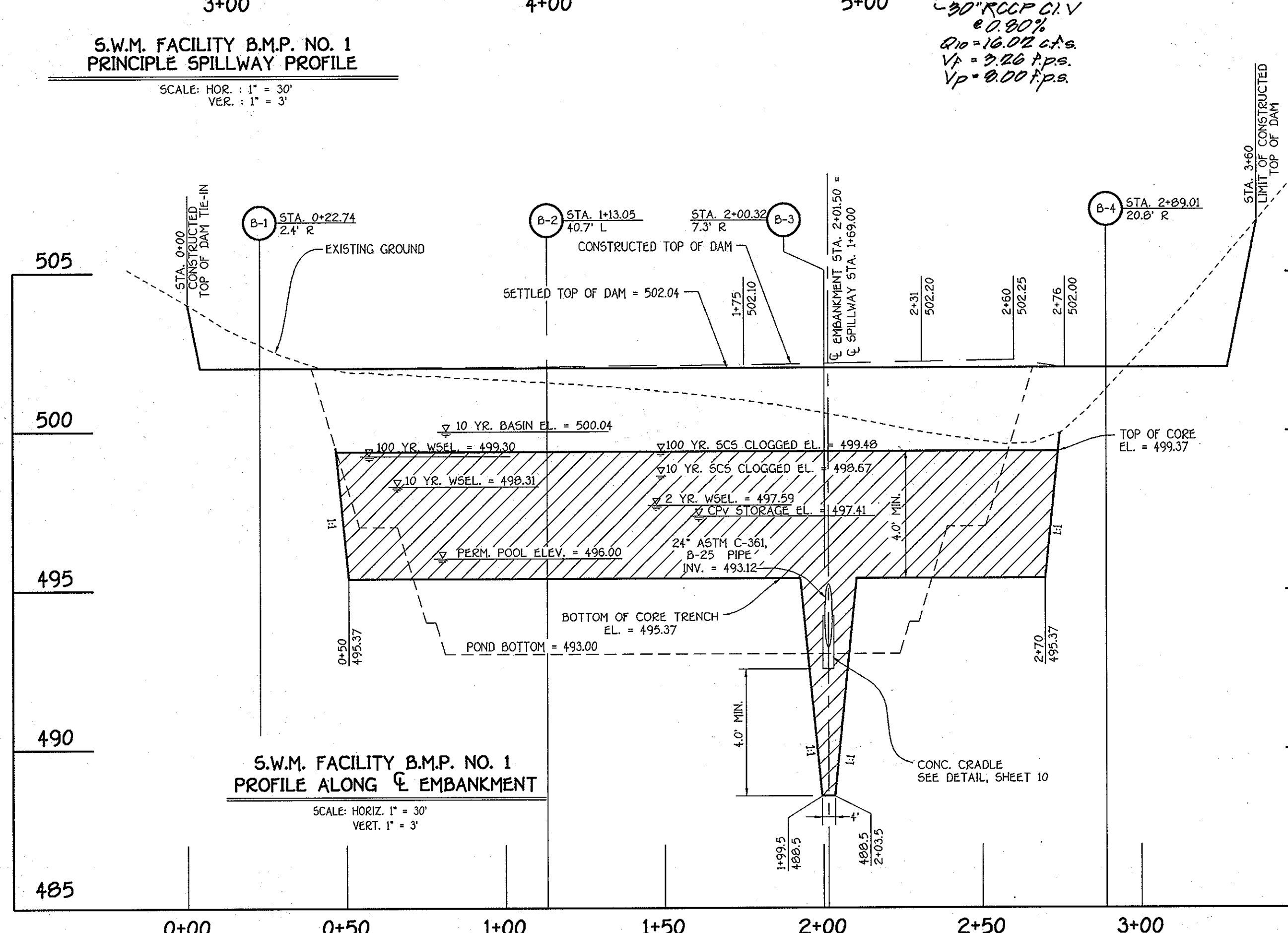
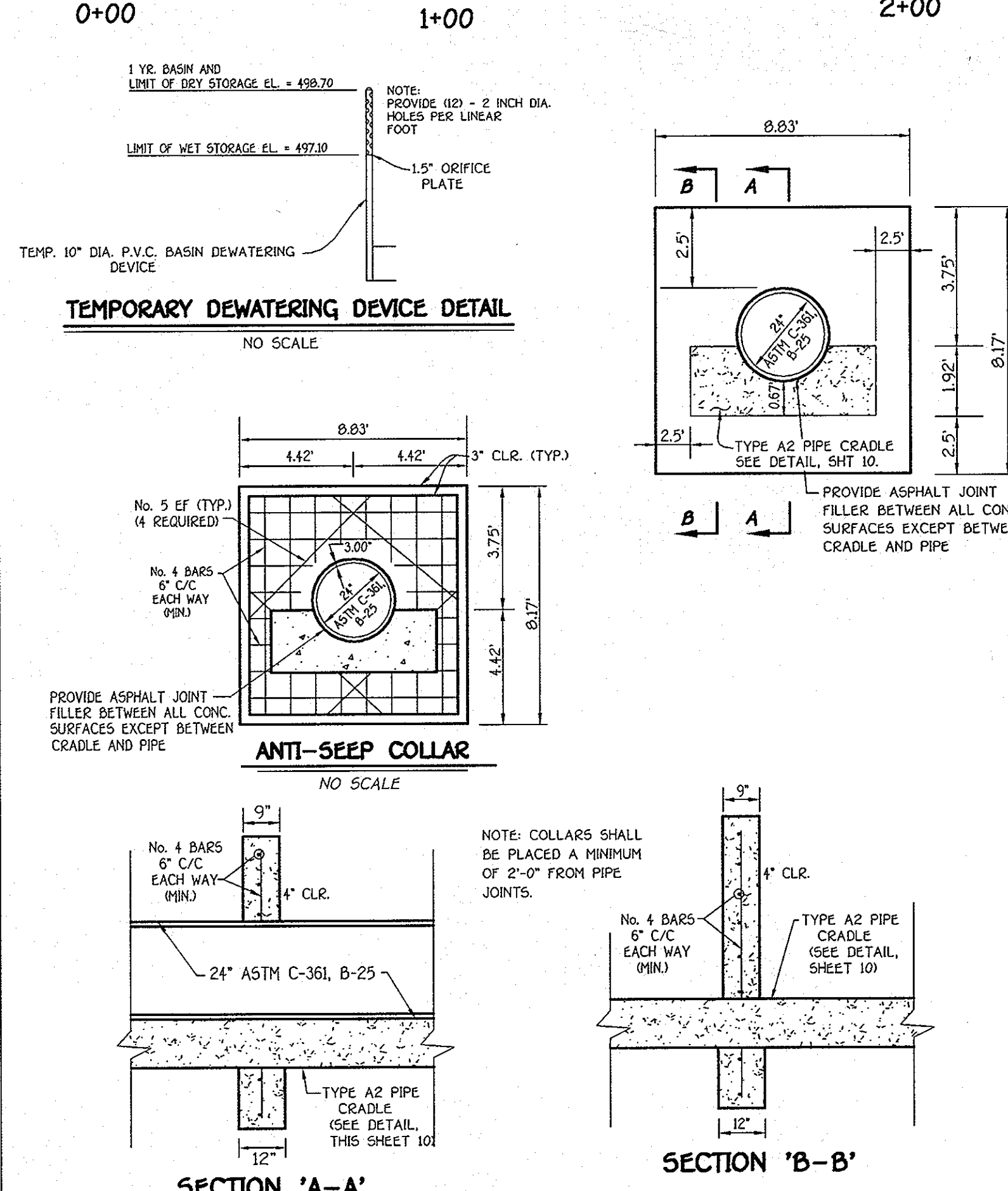
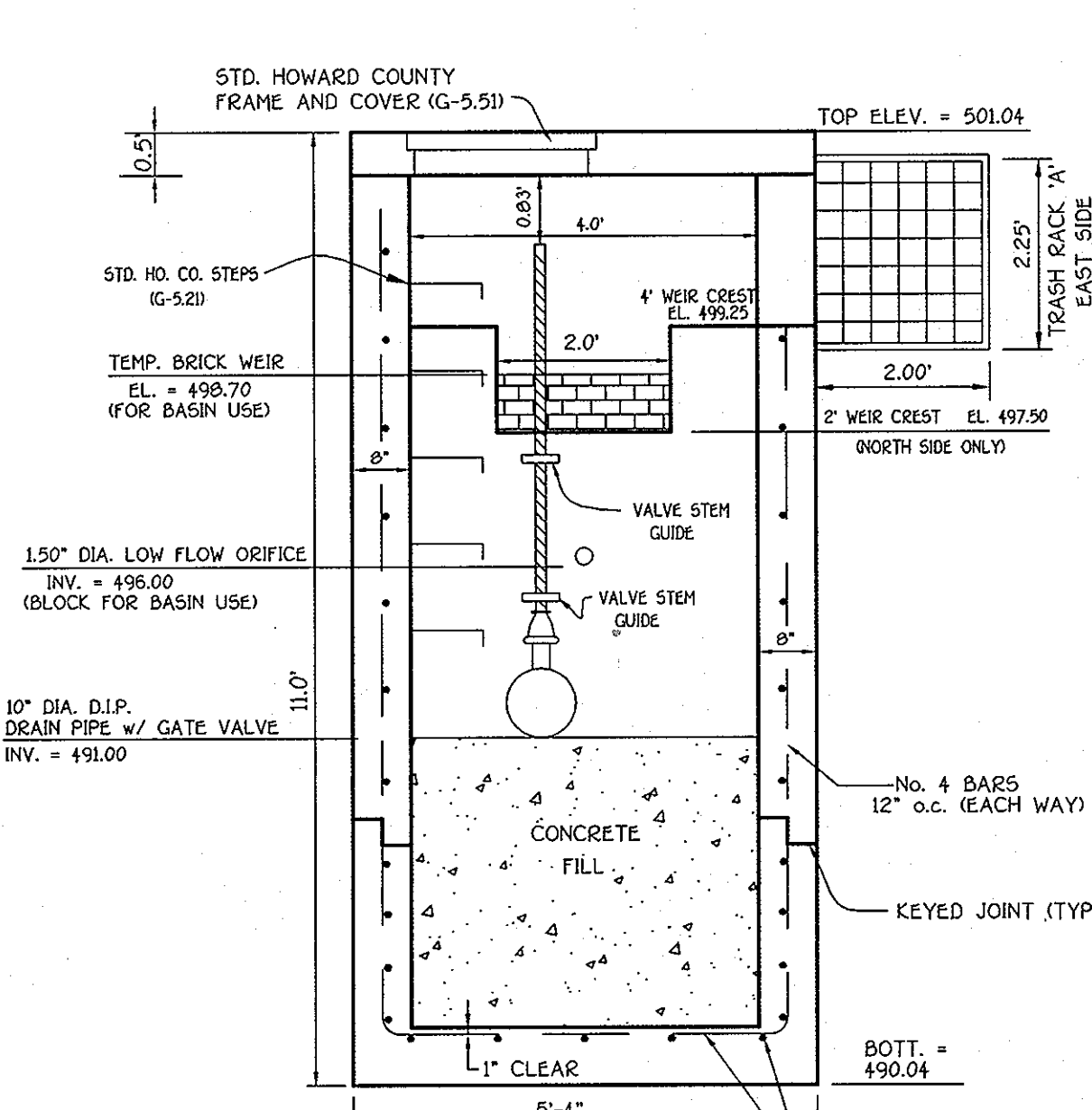
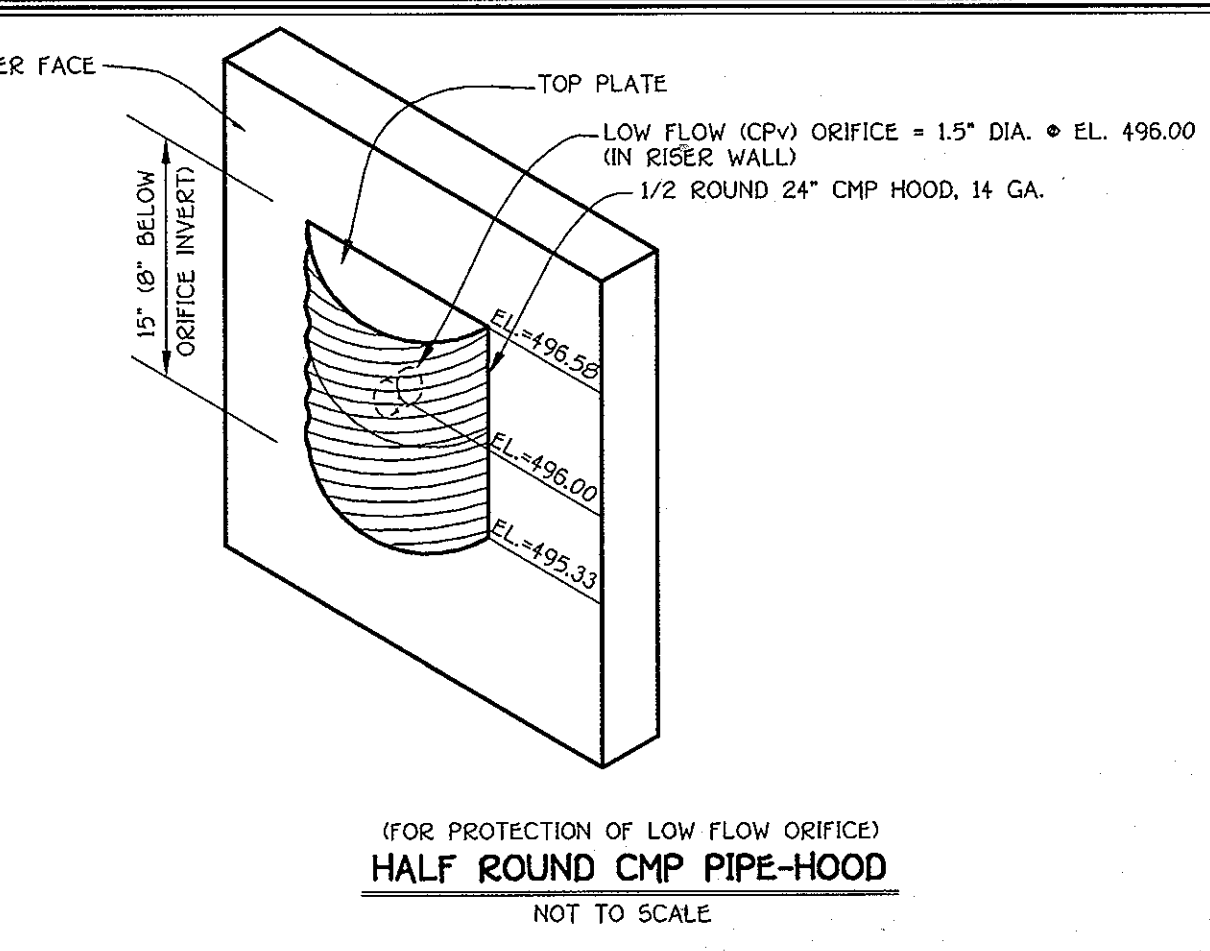
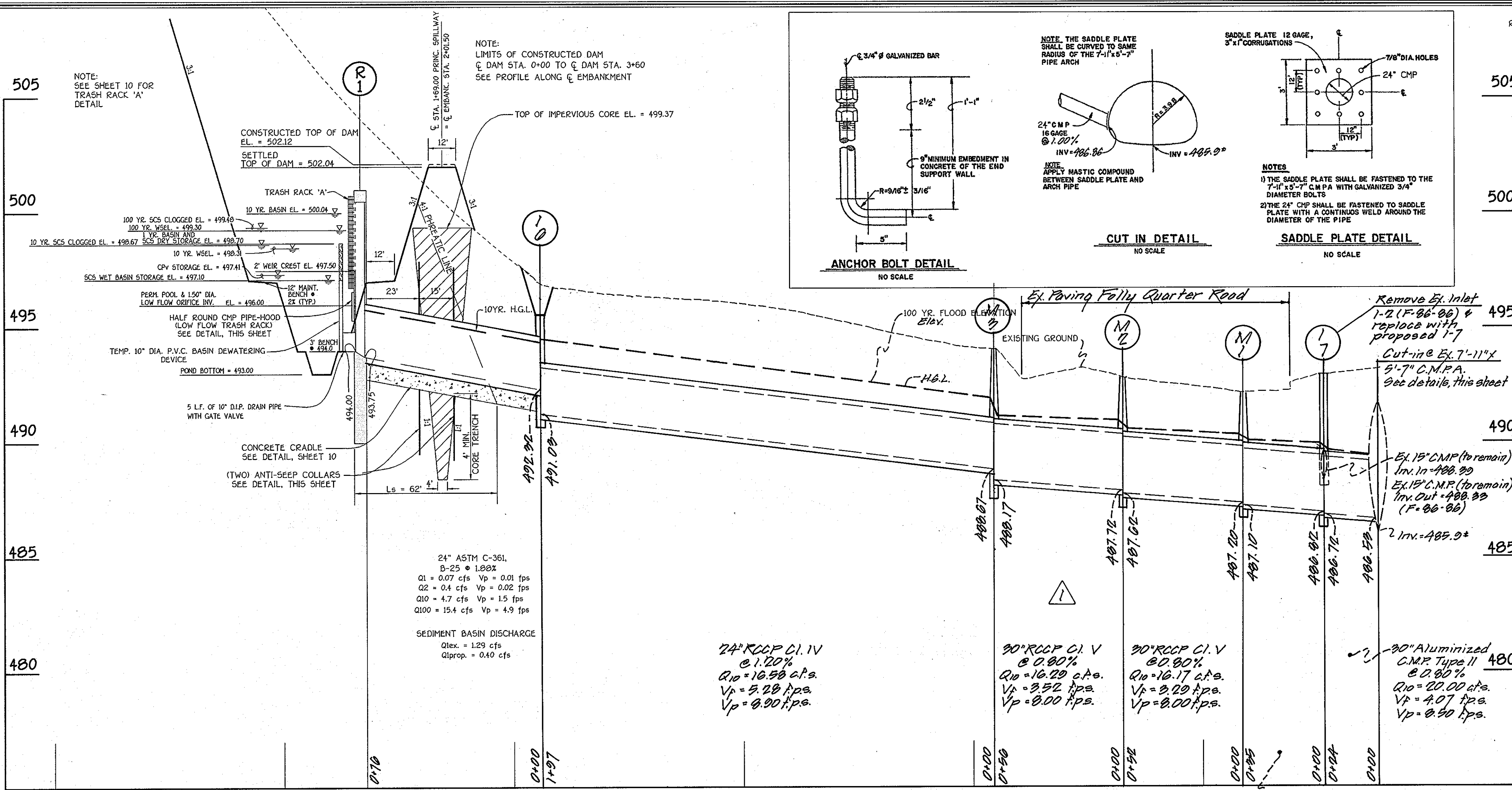
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Eco-Science Professionals, Inc.
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MD QNC Qualified Professional
 USACE: 10480 of 10480 for
 Certification: WCP032056100418
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By The Developer:
 I/We Certify That All Development And/Or Construction Will Be Done According To These Plans, And That Any Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of The Environment Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Grant Endorse A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion. I Also Authorize Periodic On-Site Inspections By The Howard Soil Conservation District.

Signature Of Developer: *William Gray* Date: 9/21/05
 Printed Name Of Developer: William Gray

By The Engineer:
 I Certify That The Construction Erosion And Sediment Control Represents A Practical Plan On My Personal Knowledge Of The Site Conditions. This Plan Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District. I Have Reviewed The Plans And I Agree To The Must Engage A Registered Professional Engineer To Supervise Pond Construction And Provide The Howard Soil Conservation District With An "As-Built" Plan Of The Pond Within 30 Days Of Completion.

Signature Of Engineer: *David Mullinix* Date: 9/21/05
 Printed Name Of Engineer: David Mullinix

These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction Soil Erosion And Sediment Control.

USDA-Natural Resources Conservation Service Date: 11/22/05
 Approved Department of Public Works: *William Z. ...* Date: 12-1-05
 Chief, Bureau of Highways

Approved Department of Planning And Zoning: *David Mullinix* Date: 12/7/05
 Chief, Division of Land Development

Approved Department of Planning And Zoning: *David Mullinix* Date: 12/10/05
 Chief, Development Engineering Division

AS-BUILT CERTIFICATION
 I Herby Certify That The Facility Shown On This Plan Was Constructed As Shown On The "As-Built" Plans And Meets The Approved Plans And Specifications.

Signature: _____ P.E. No. _____
 Date: _____

Certify Means To State Or Declare A Professional Opinion Based Upon On-Site Inspections And Material Tests Which Are Conducted During Construction. The On-Site Inspections And Material Tests Are Those Inspections And Tests Deemed Sufficient And Appropriate Commonly Accepted Engineering Standards. Certify Does Not Mean Or Imply A Guarantee By The Engineer Nor Does An Engineer's Certification Relieve Any Other Party From Meeting Requirements Imposed By Contract, Employment, Or Other Means, Including Meeting Commonly Accepted Industry Practices.

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 ELICOTT CITY, MARYLAND 21042
 (410) 461-2855
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TYPICAL SECTION THROUGH BARREL, CRADLE AND ANTI-SEEP COLLAR
 NO SCALE

No.	Revisions	Date
1	Revise storm drain from 1-6 to the 1-7" 5'-7" C.M.P.A.	7-19-05

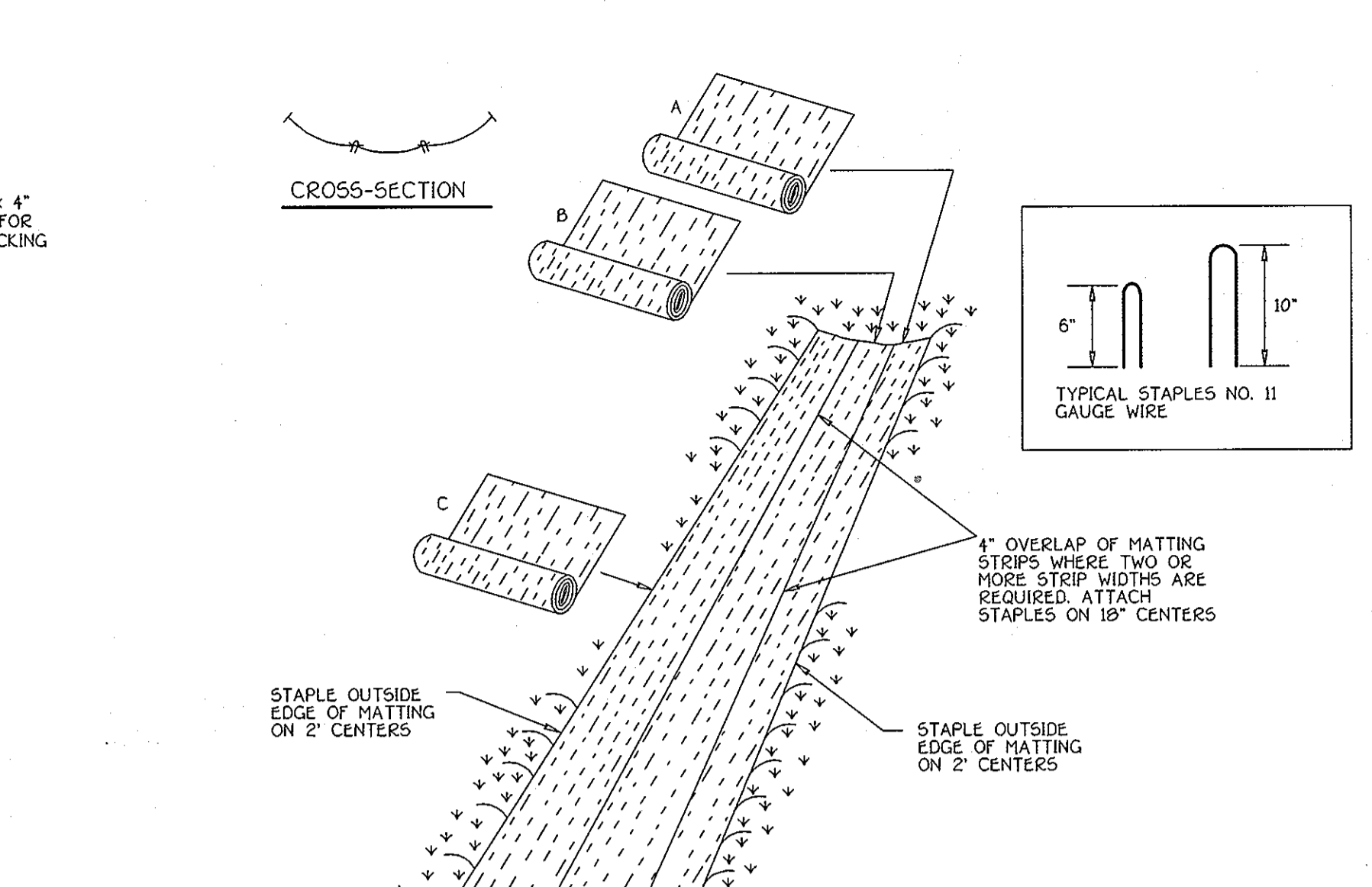
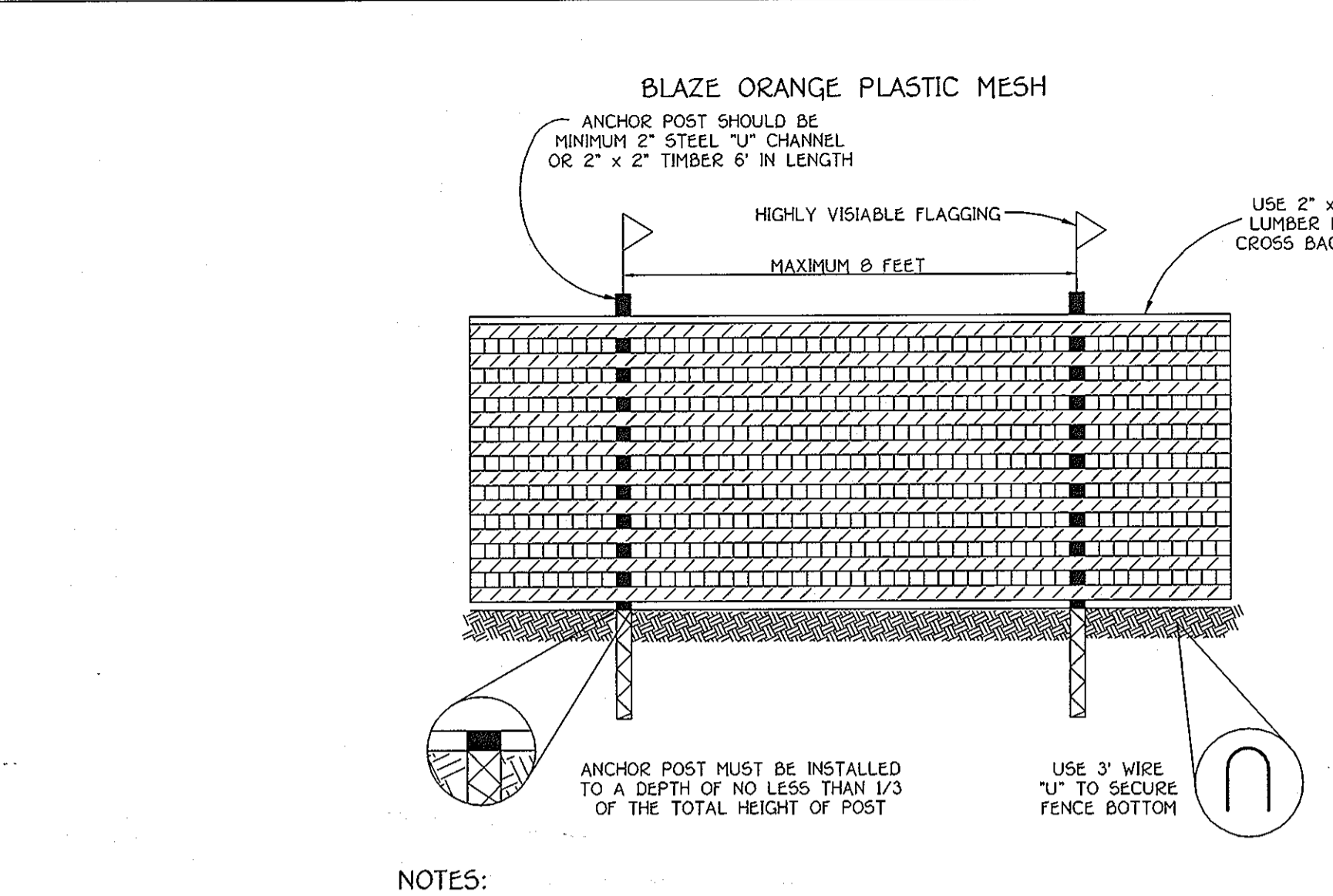
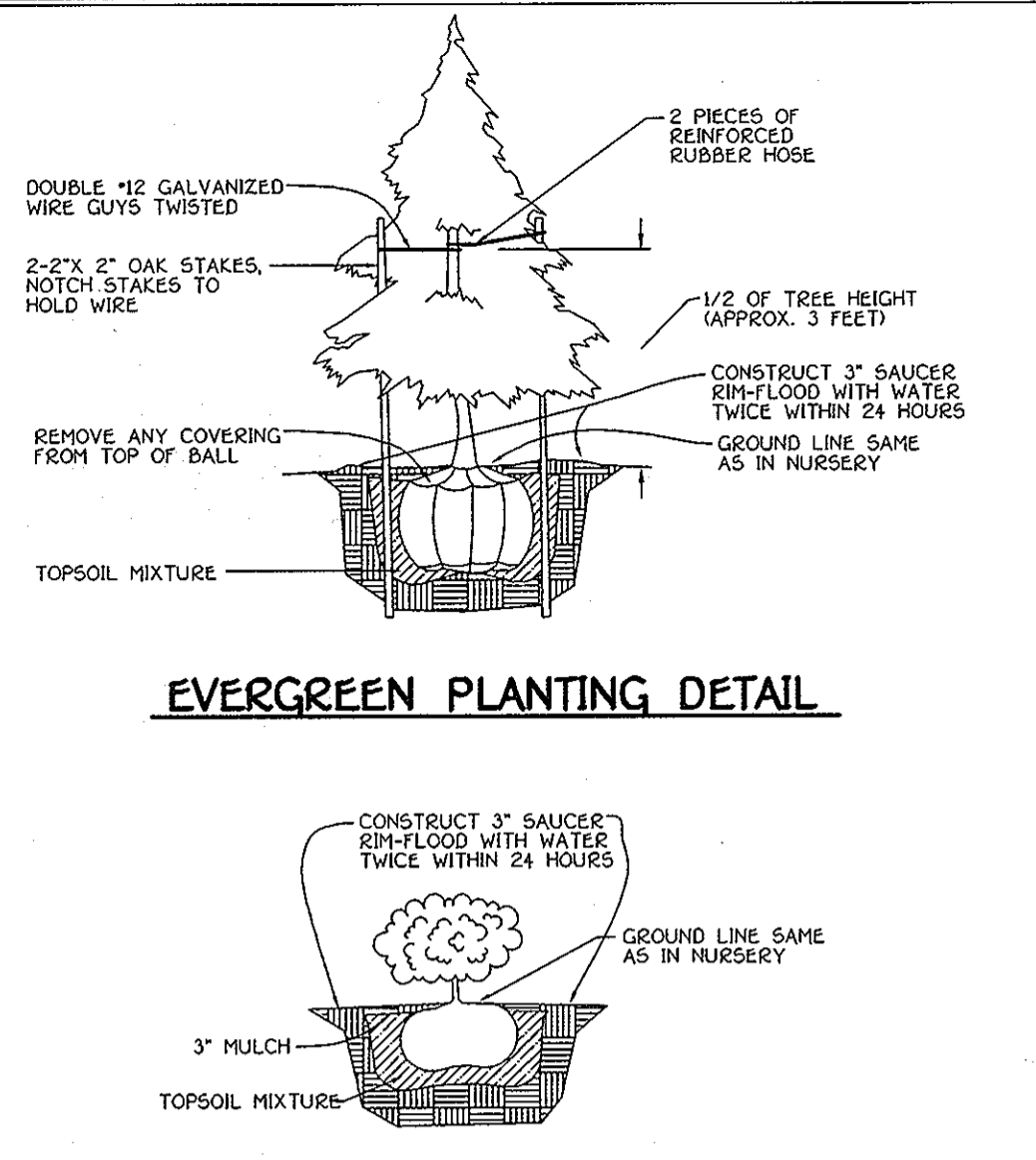
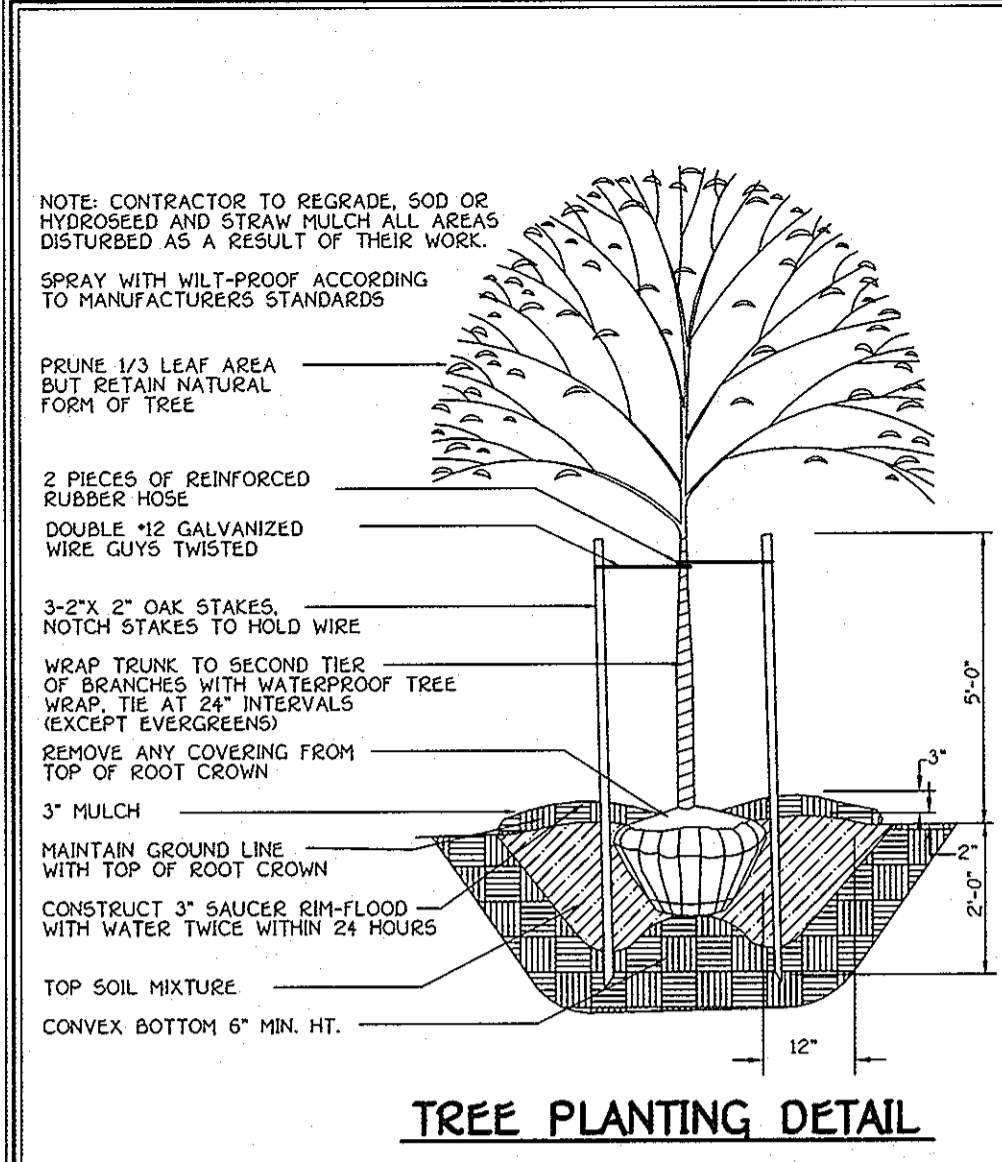
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STORMWATER MANAGEMENT PROFILES & DETAILS
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINIX PROPERTY, PLAT NO. _____)
 ZONED: RR-BEO
 TAX MAP NO. 22 GRID NO. 16 - PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 11 OF 13



PLANTING SPECIFICATIONS

Plants, related material, and operations shall meet the detailed description as given on the plans and as described herein.

All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and shape shown on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring roots, sun scald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable infestations. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be frost-free, no field-injured plants from cold storage will be accepted.

Unless otherwise specified, all general conditions, planting operations, details and planting specification shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Area", hereinafter "Landscape Guidelines" approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects, latest edition, including all agenda.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and "Miss Utility" a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within the growing season of completion of site construction.

Bid shall be based on actual site conditions. No extra payment shall be made for work arising from site conditions differing from those indicated on drawings and specifications.

Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plant list precedence.

All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

Positive drainage shall be maintained in planting beds 2 percent slope.

Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants - Two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen acidic fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Wood Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated.

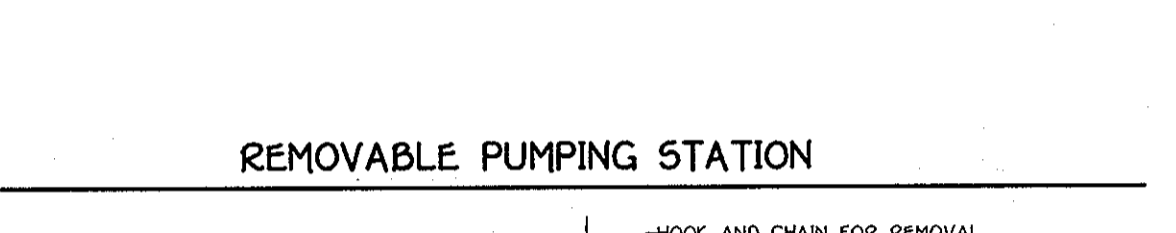
All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded.

This plan is intended for landscape use only; see other plan sheets for more information on grading, sediment control, layout, etc.

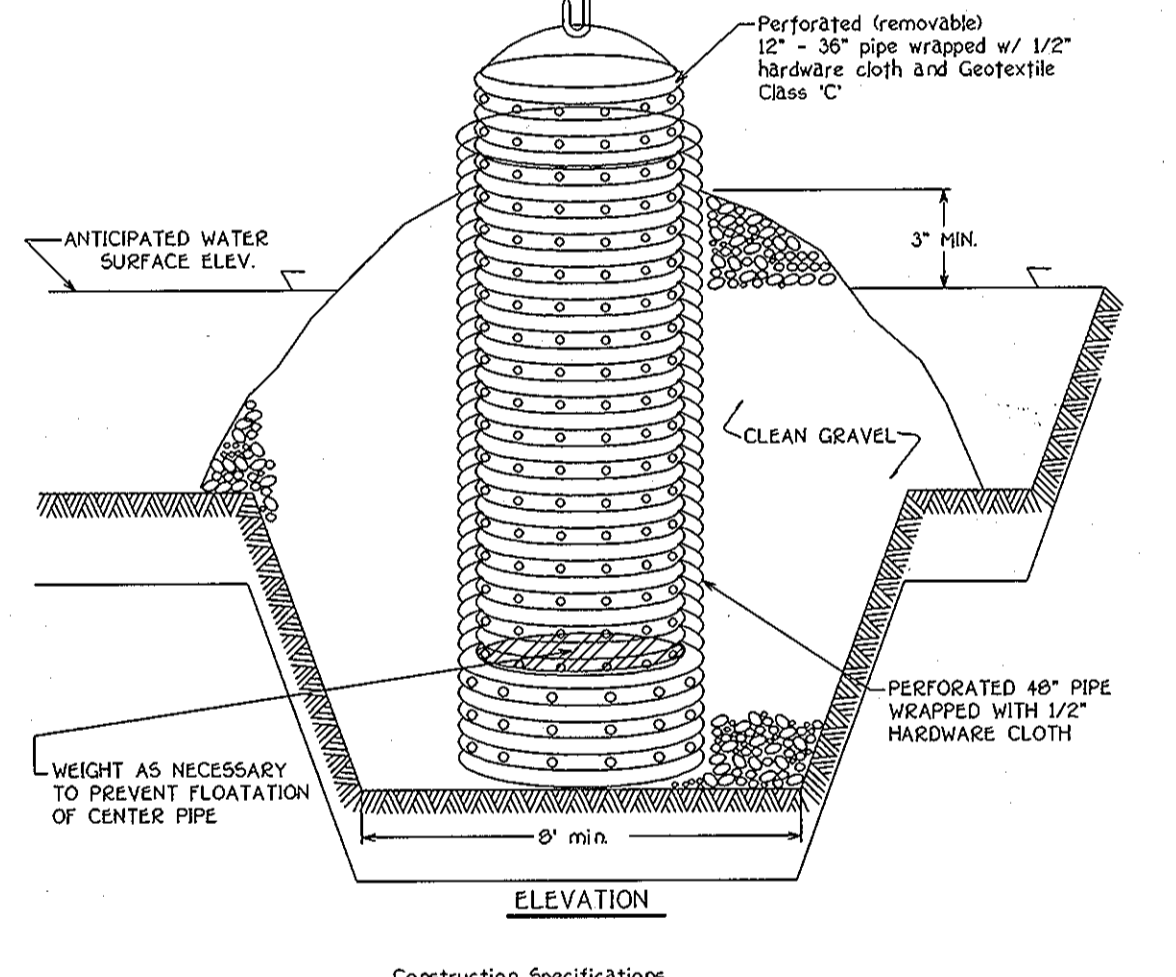
NOTES:

- FOREST PROTECTION DEVICE ONLY.
- RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
- ROOT DAMAGE SHOULD BE AVOIDED.
- PROTECTIVE SIGNAGE MAY ALSO BE USED.
- DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION DETAIL



REMOVABLE PUMPING STATION



EROSION CONTROL MATTING

NOT TO SCALE

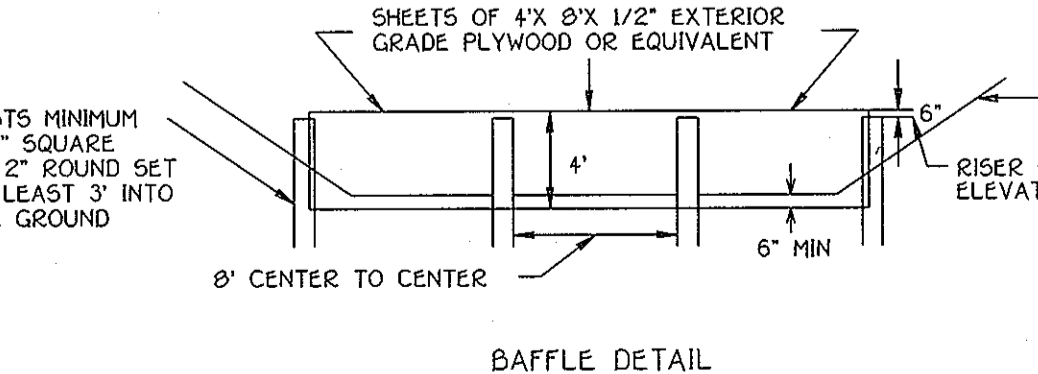
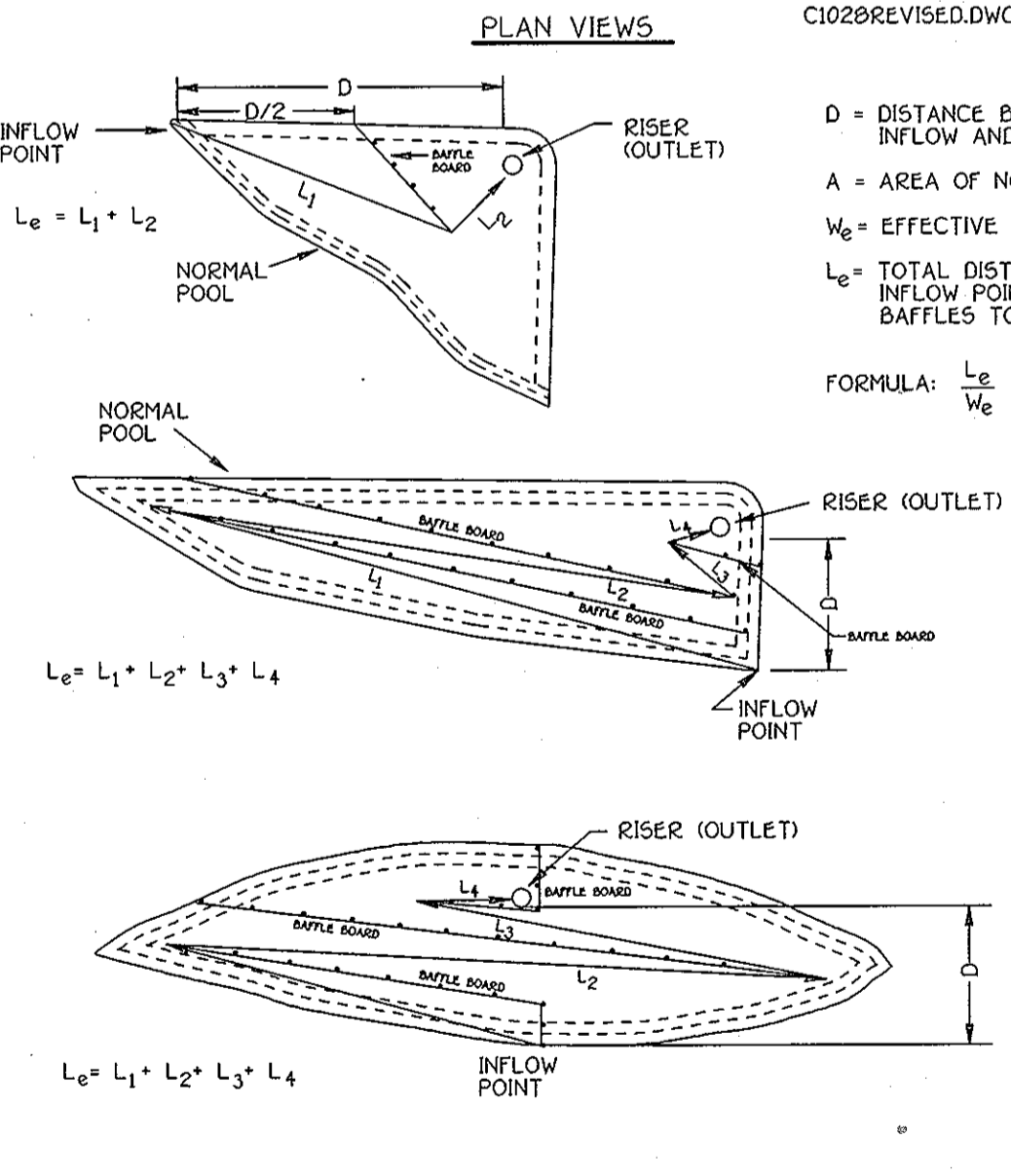
- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2" apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area effected by the flow must be key-in.

SEDIMENT BASIN BAFFLES

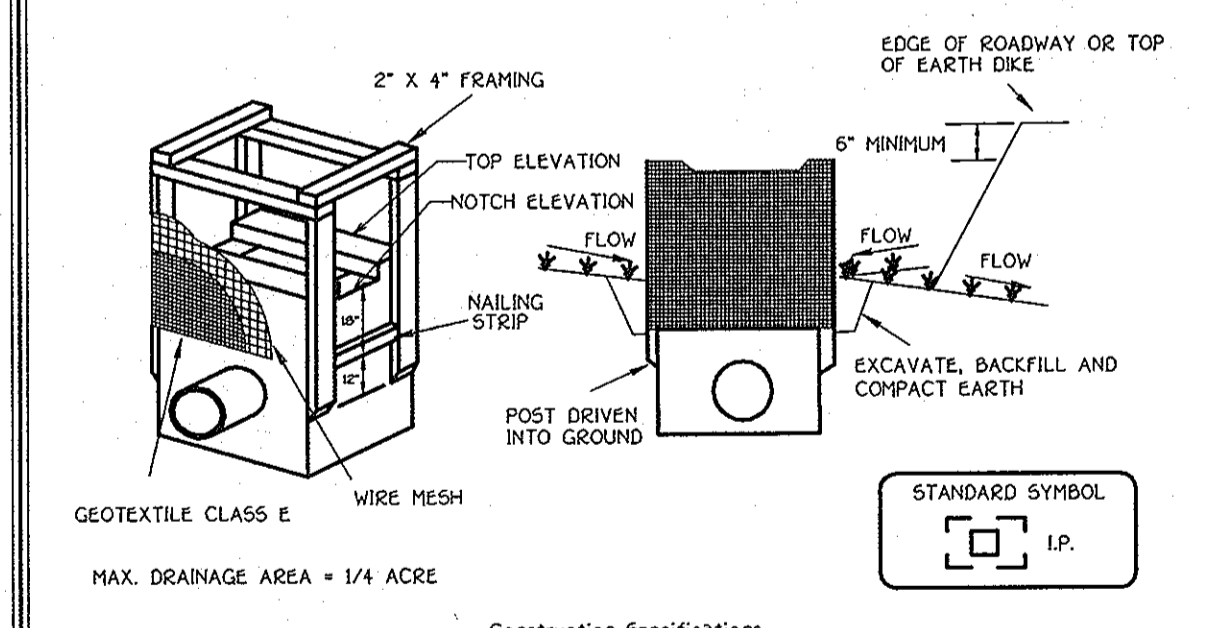
NOT TO SCALE

PLAN VIEWS



TREE PLANTING DETAIL

NOT TO SCALE

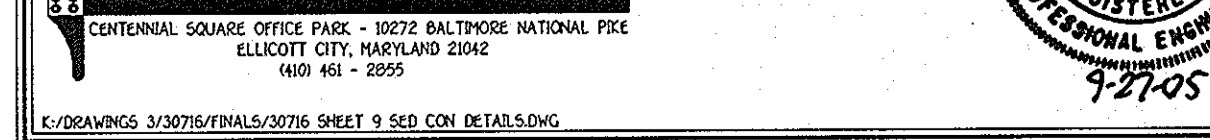


STANDARD INLET PROTECTION

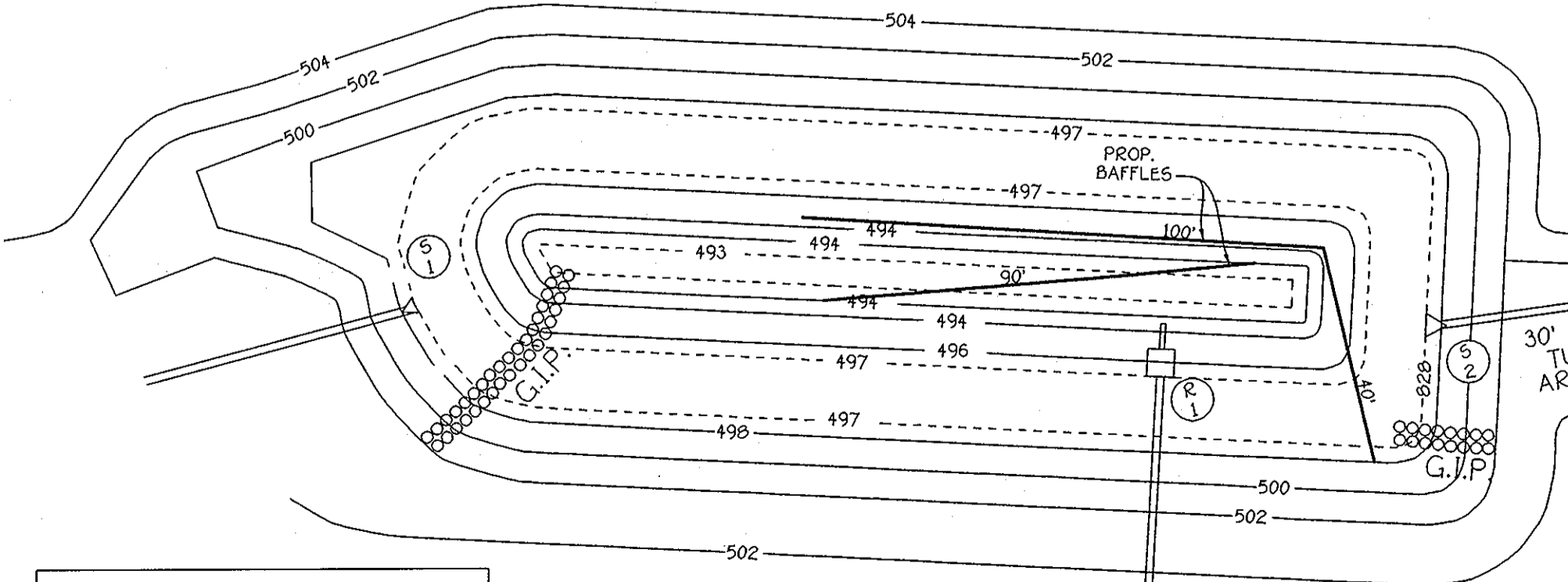
- Excavate completely around the inlet to a depth of 18" below the notch elevation.
- Drive the 2" x 4" construction grade lumber posts 1" into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (notch) must be 5" below adjacent roadways where flooding and safety issues may arise.
- Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.
- Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.
- Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.
- If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.
- The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

STANDARD INLET PROTECTION

NOT TO SCALE



FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



SEDIMENT BASIN BAFFLES - PLAN

SCALE: 1" = 30'

OWNERS
J. DAVID MULLNIX, ELIZABETH C. MULLNIX, 14420 HOWARD ROAD, DAYTON, MARYLAND, 21036

DEVELOPER
J. THOMAS SCRIVENER, INC., 8800 CENTRE PARK DRIVE, SUITE 209, COLUMBIA, MARYLAND, 21145

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion And Sediment Control Represents a Workable Plan Based On My Personal Knowledge Of The Site and That It Was Prepared In Accordance With The Requirements of the Howard Soil Conservation District.

DEVELOPER'S CERTIFICATE

"I/we Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary."

Signature of Developer: *Jim Myn...* Date: 9/28/05

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements: *Jim Myn...* Date: 11/22/05

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District. *John...* Date: 11/22/05

Approved: Department Of Planning And Zoning: *...* Date: 12/7/05

Chief, Division Of Land Development: *...* Date: 12/6/05

Chief, Development Engineering Division: *...* Date: 12-1-05

Approved: Howard County Department Of Public Works: *...* Date: 12-1-05

SEQUENCE OF CONSTRUCTION

PHASE ONE

- OBTAIN A GRADING PERMIT.
- NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-313-1330 24 HOURS BEFORE STARTING WORK.
- INSTALL ALL TREE PROTECTION FENCE FOR TREES TO BE UNDISTURBED AS INDICATED ON THE PLANS (1 DAY). INSTALL STABILIZED CONSTRUCTION ENTRANCE (3 DAYS).
NOTE: THE FOLLOWING S.O.C. 4-5 SHALL OCCUR WITHIN A 5-DAY CLEAR WEATHER FORECAST WITH THE PERMISSION FROM INSPECTOR BEFORE PROCEEDING.
- INSTALL SILT FENCE, EARTH DIKES & MOUNTABLE BEEM. INSTALL CULVERTS FROM 5-4 TO 5-5 AND GRADE IN DITCHES ALONG FOLLY QUARTER ROAD. GRADE ALONG FOLLY QUARTER ROAD FOR APPROPRIATE ROAD IMPROVEMENTS. REMOVE ANY UTILITY POLES IF NECESSARY. SAW CUT FOLLY QUARTER ROAD AND INSTALL PAVING SECTION PER APPROPRIATE IMPROVEMENTS. (2 WEEKS)
NOTE: CONTRACTOR TO STABILIZE ANY DISTURBED AREA BY THE END OF EACH DAY WITH TOPSOIL, E.C.M. AND PERMANENT SEED MIX.
- WORKING DOWNSTREAM TO UPSTREAM BEGIN STORM DRAIN CONSTRUCTION FROM CONNECTION TO EXISTING TRIPLE CELL CULVERT UP TO 1-6. REMOVE THE EXISTING 18" CULVERT UNDER FOLLY QUARTER ROAD WHEN WORK REACHES VICINITY OF M-3. INSTALL INLET SEE BELOW.
- RECEIVE PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR PRIOR TO PROCEEDING.

PHASE TWO

- CLEAR & GRUB FOR SEDIMENT BASIN/S.W.M. POND. INSTALL SEDIMENT BASIN/S.W.M. POND WITH OUTFALL TO 1-6 AND SILT FENCE AS INDICATED ON THE PLANS. NO BLASTING WILL BE PERMITTED FOR THE EXCAVATION OF SEDIMENT BASIN/S.W.M. POND EMBARMENT. WHERE NECESSARY, KIPPING AND JACK HAMMERING SHOULD BE UTILIZED IN THE EXCAVATION OF THE FACILITY. (2 WEEKS)
- CLEAR AND GRUB THE REMAINDER OF THE SITE. (3 DAYS)
- GRADE SITE TO THE PROPOSED SUB-GRADE AND INSTALL THE STORM DRAIN SYSTEMS. STABILIZE ALL SLOPES IMMEDIATELY UPON COMPLETION OF GRADING. INSTALL 5-1 THRU 1-2 & 5-2 THRU 1-5. GRADE DITCH AT REAR OF LOT 4 ON THE EAST SIDE OF LOT 4 AS SHOWN ON THE PLANS. DO NOT BLOCK INLETS AS STORM DRAIN SYSTEM WILL BE USE TO CONVEY SEDIMENT TO BASIN. (2 WEEKS)
- CONSTRUCT ROAD BASE COURSE FOR INTERNAL SUBDIVISION ROAD. (1 WEEK)
- WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES AND THE POND HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED AND/OR BACKFILLED AND THE REMAINING AREAS BROUGHT TO FINAL DESIGN GRADE. STABILIZE ALL REMAINING AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 WEEKS)
- NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.

NOTE:
THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON. AFTER EACH RAINFALL AND ON A DAILY BASIS, REMOVE SEDIMENT FROM THE POND WHEN THE CLEAROUT ELEVATION HAS BEEN REACHED. ALL SEDIMENT MUST BE PLACED UPSTREAM OF THE APPROVED TRAPPING DEVICE.

* 5 Cont. WORK WITHIN FOLLY QUARTER ROAD SHALL FOLLOW THE TRAFFIC FOR LANE CLOSURES.

REVISIONS		
NO	DESCRIPTION	DATE
1	REVISE STORM DRAIN FROM 1-6 TO THE EX. 7'-11" X 5'-7" C.M.P.A. 7-19-06	

SEDIMENT CONTROL NOTES AND DETAILS

BUCKSKIN OAKS

LOTS 1 THRU 4, OPEN SPACE LOT 5, BUILDABLE PRESERVATION PARCEL 'A' AND NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C' (A RESUBDIVISION OF LOT 5 - J. DAVID MULLNIX PROPERTY, PLAT NO. 14449)

ZONED: RR-DEO

TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: JUNE 20, 2005 SHEET 9 OF 13

STRUCTURE SCHEDULE

STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	ROAD NAME	C.L. ROAD STA.	OFFSET	TYPE	REMARKS
I-1	* 500.64	498.04	497.79	BUCKS RIDGE COURT	0+59	17' R	SEE DETAIL, THIS SHEET	
I-2	* 500.96	-----	498.21	BUCKS RIDGE COURT	0+64	17' L	'D' INLET	S.D. - 4.11
I-3	* 503.17	499.67	499.42	N 51871.5925 E 809499.2073	-----	---	SEE DETAIL, THIS SHEET	
I-4	* 505.10	502.35	502.10	N 518964.3156 E 809693.0721	-----	---	SEE DETAIL, THIS SHEET	
I-5	* 514.27	-----	510.06	N 519031.2976 E 809615.3843	-----	---	'D' INLET	S.D. - 4.11
I-6	* 495.50	492.86	491.09	N 518644.9811 E 809226.6482	-----	---	SEE DETAIL, THIS SHEET	
1-7 (Match Ex. 1-2)	492.80	488.88	488.72	Buckskin Lake Drive	0+95.5	---	A-5 & EX 1-2 (R-06-00) (See plan)	
M-1	492.10	487.20	487.10	*	---	---	STD. MANHOLE	G - 5.11
M-2	492.80	487.72	487.62	*	---	---	STD. MANHOLE	G - 5.11
M-3	494.20	488.67	488.17	*	---	---	STD. MANHOLE	G - 5.11
R-1	501.04	494.00	493.75	N 518733.5188 E 809252.3257	-----	---	CONCRETE RISER	-----
S-1	498.51	497.01	-----	N 518777.7756 E 809108.4739	-----	---	CONC. END SECTION	S.D. - 5.52
S-2	498.60	497.10	-----	N 518728.6821 E 809307.1098	-----	---	CONC. END SECTION	S.D. - 5.52
S-4	498.19	496.52	-----	BUCKS RIDGE COURT	0+35	63' R	TYPE 'O' HEADWALL	S.D. - 5.42 & S.D. - 5.42 A
S-5	499.02	-----	497.35	BUCKS RIDGE COURT	0+22	43' L	TYPE 'O' HEADWALL	S.D. - 5.42 & S.D. - 5.42 A

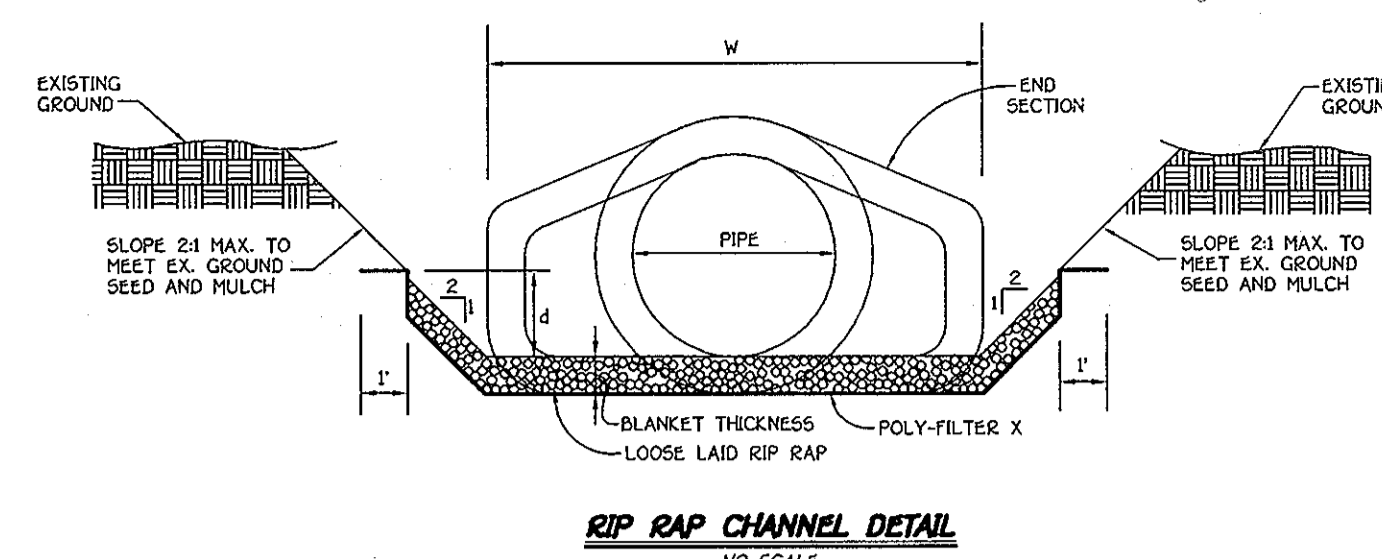
* - DENOTES THROAT ELEVATION

PIPE SCHEDULE

SIZE	MATERIAL	LENGTH
15"	HDPE	137'
18"	HDPE	62'
30" x 19"	CL. V. R.C.C.P.E.	99'
24"	ASTM, C-361 B-25	76'
24"	CL. V. R.C.C.P.	199'
24"	CL. V. R.C.C.P.	197'
24"	ALUMINIZED C.M.P., TYPE II	24'

CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely reobbing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall such be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

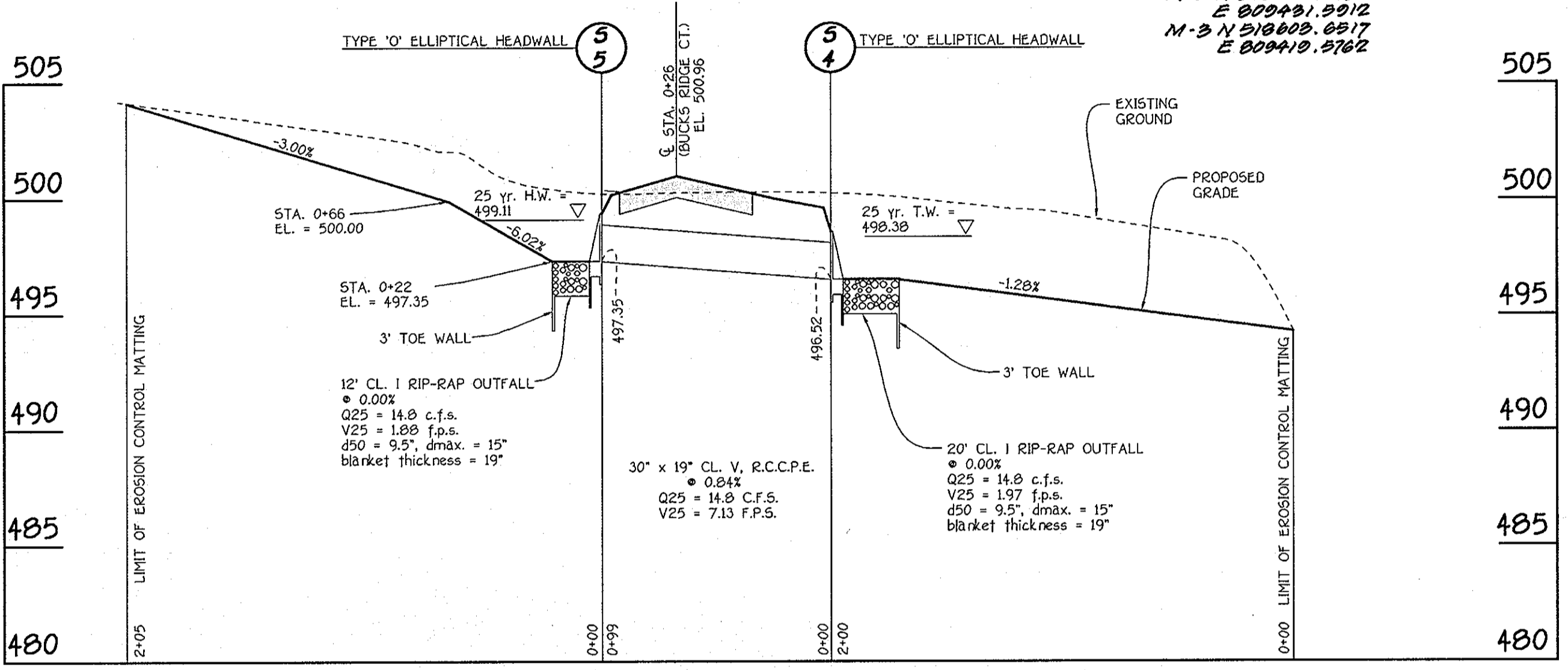


RIP-RAP CHANNEL DETAIL
NO SCALE

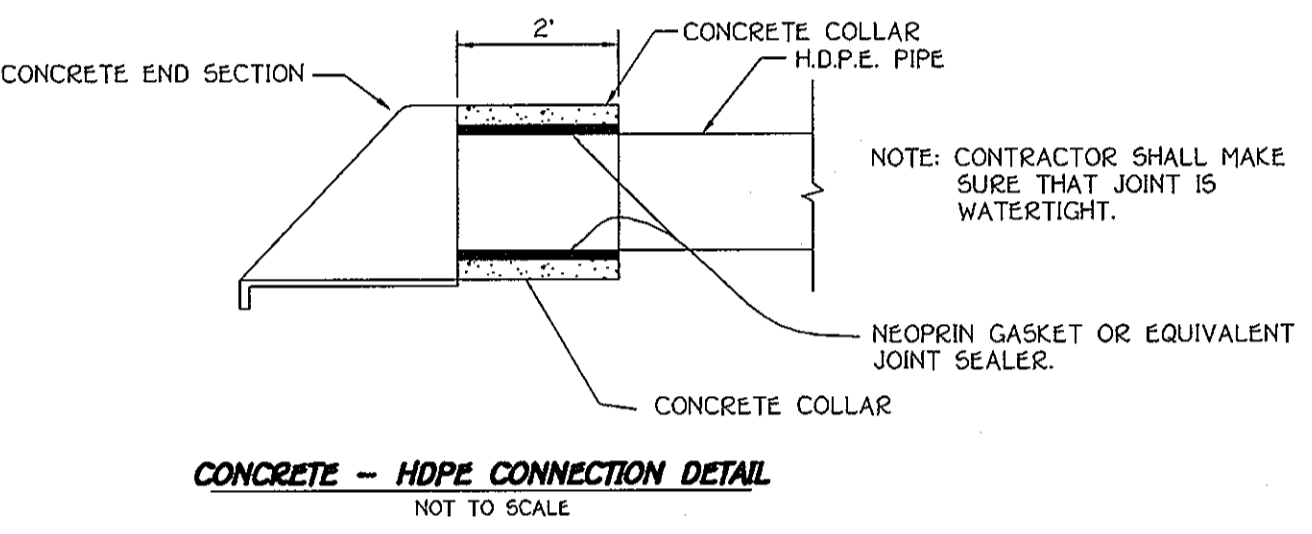
RIP-RAP CHANNEL DESIGN DATA

STRUCTURE	AREA	WETTED PERIMETER	R	R ^{2/3}	S	S ^{1/2}	W	d	N	V (f.p.s.)	Q (c.f.s.)	Q ₁₀ (c.f.s.)	BLANKET THICKNESS	PIPE SIZE
S-1	4.32'	9.00'	0.5467	0.6573	0.0050	0.0707	6.0'	0.67'	0.04	1.76	8.65	9.5'	15"	18"
S-2	5.18'	9.13'	0.5674	0.6841	0.0050	0.0707	6.0'	0.70'	0.04	1.80	9.32	9.5'	15"	18"
S-4	7.98'	13.13'	0.6078	0.7163	0.0050	0.0707	10.0'	0.70'	0.04	1.88	14.8 *	9.5'	15"	30" x 19"
S-5	7.98'	13.13'	0.6078	0.7163	0.0050	0.0707	10.0'	0.70'	0.04	1.88	14.8 *	9.5'	15"	30" x 19"

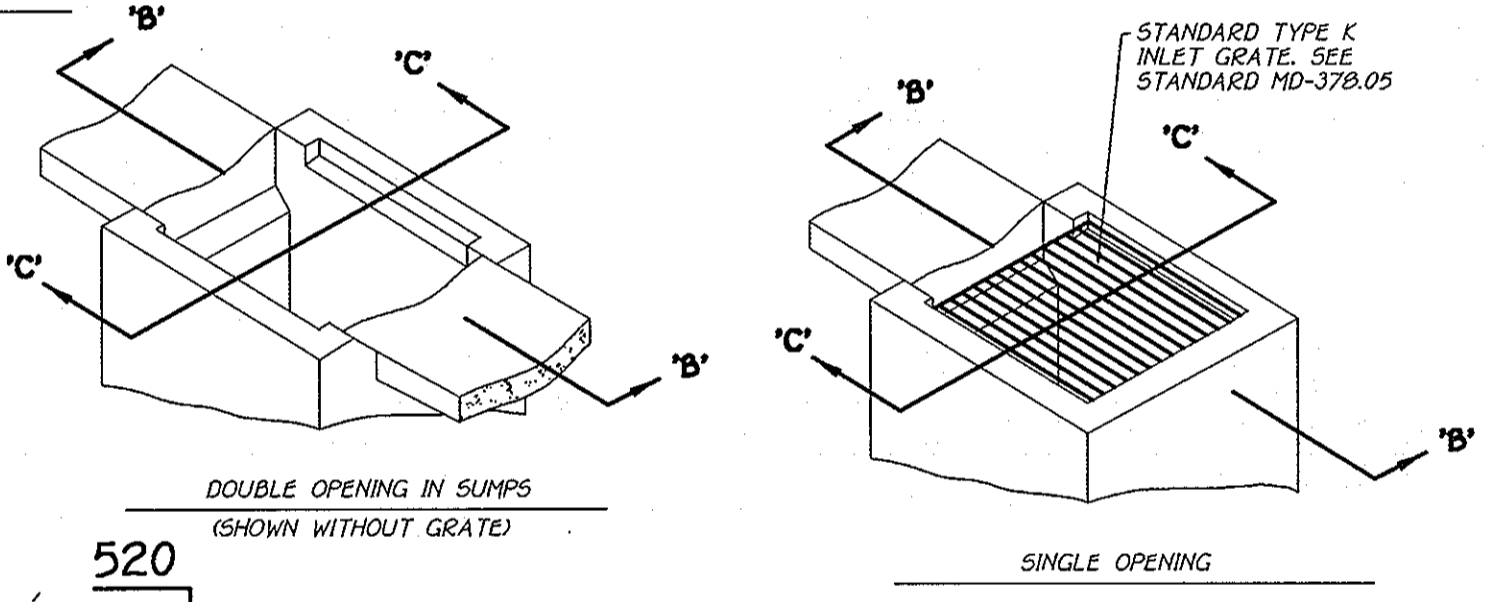
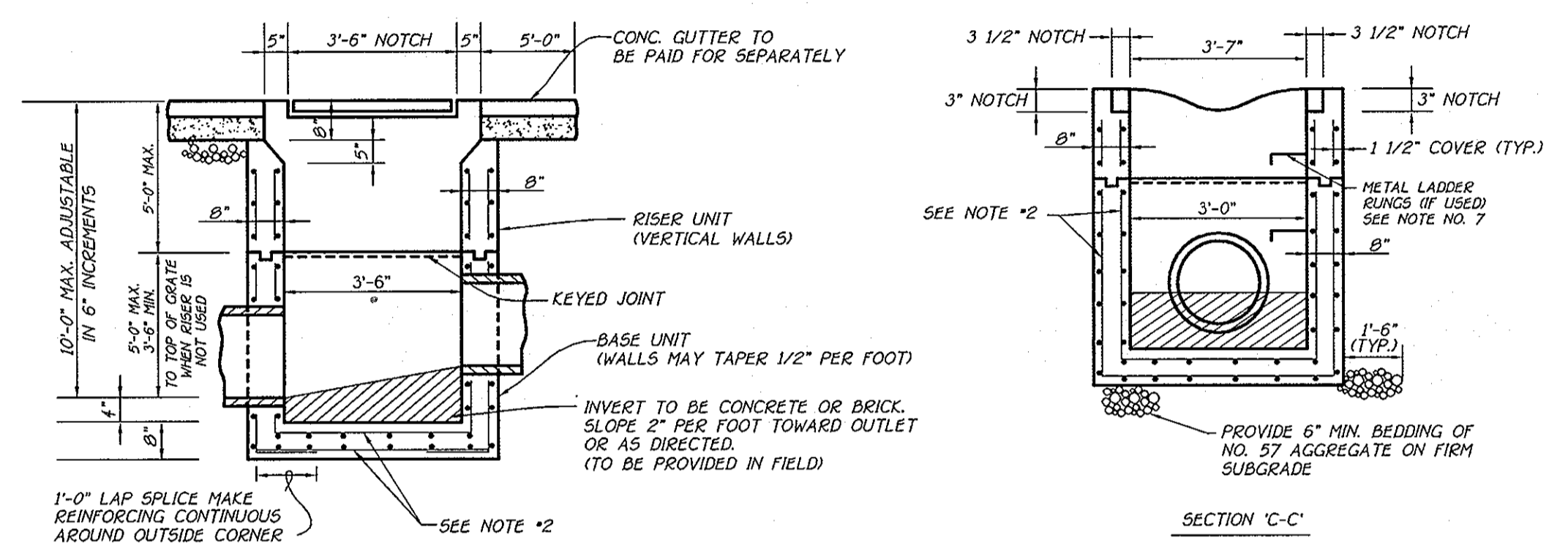
* - DENOTES 25-YEAR Q



CULVERT PROFILE
SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'

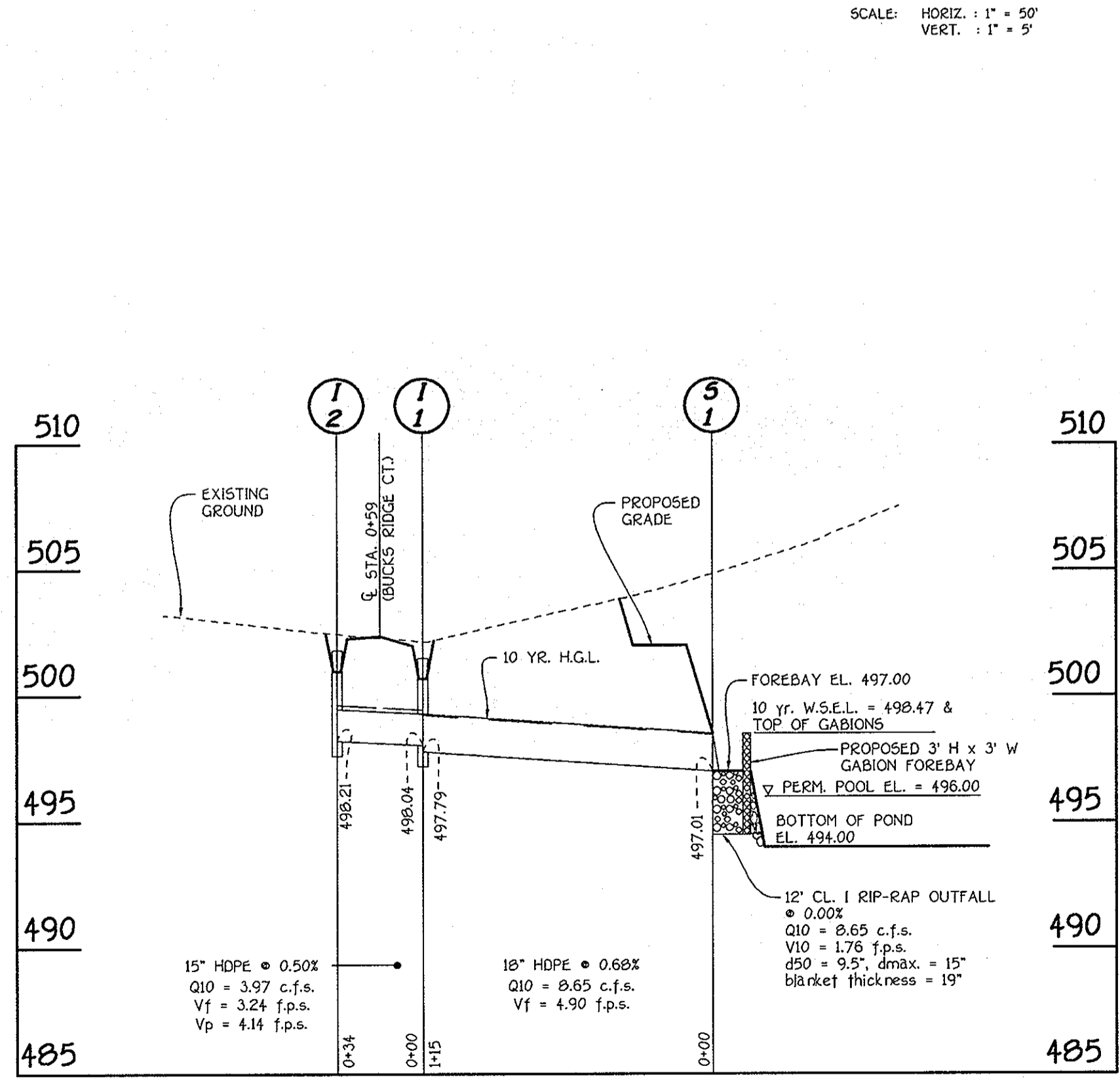


CONCRETE - HDPE CONNECTION DETAIL
NOT TO SCALE

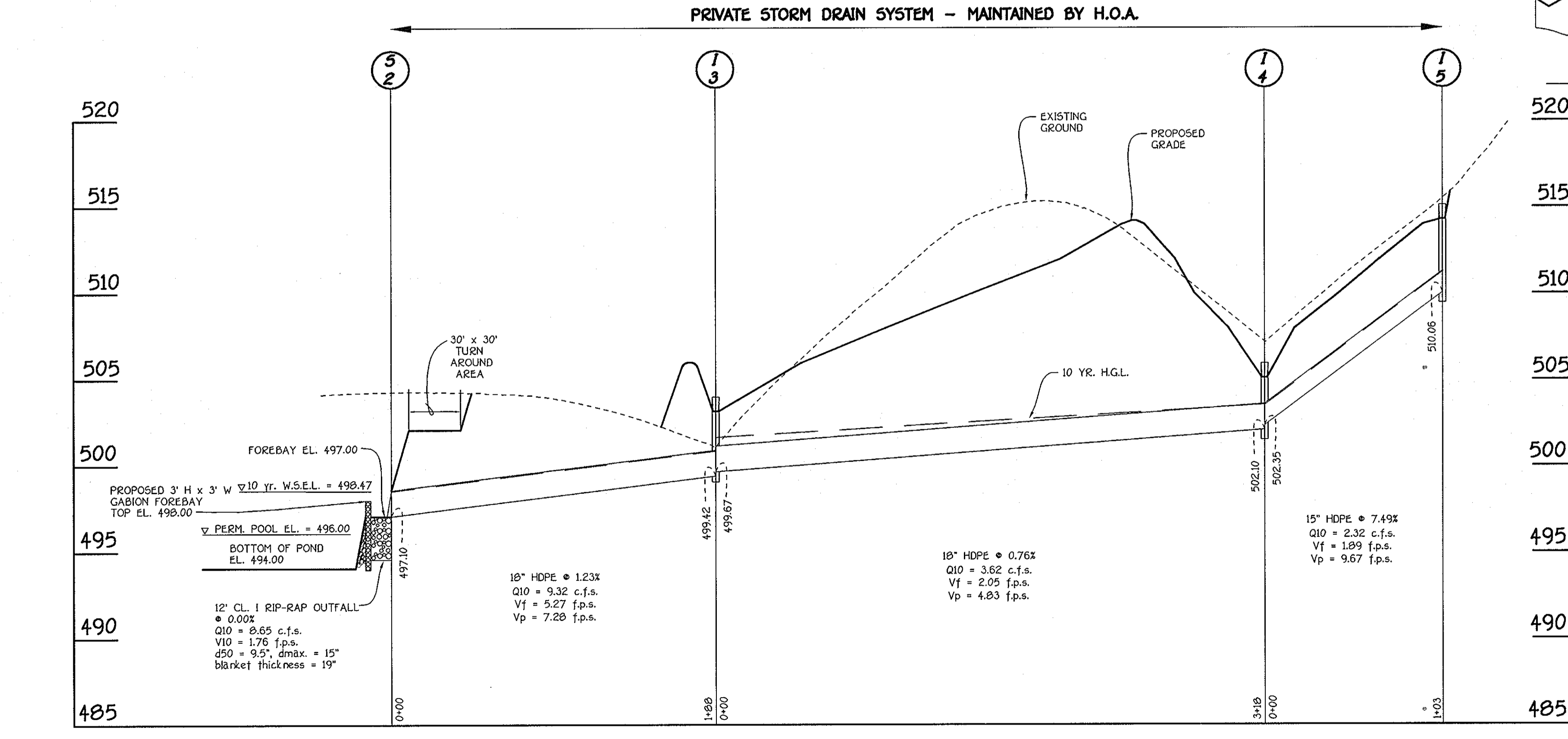


- GENERAL NOTES:**
- CONCRETE TO BE MIX NO. 6 (4500 PSI).
 - REINFORCING - 2 LAYERS OF 4 x 4 - W 4.0 x W 4.0 WELDED WIRE FABRIC.
 - THREADED PLASTIC INSERTS TO BE PROVIDED FOR HANDLING.
 - FOR GRATE DETAILS SEE STANDARD MD - 378.05. GRATE TO BE AS SHOWN OR FURNISH APPROVED EQUIVALENT.
 - PIPE OPENINGS TO BE PROVIDED AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS REFER TO CONSTRUCTION PLANS.
 - PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON THE CONSTRUCTION PLANS.
 - LADDER RUNGS SHALL BE IN ACCORDANCE WITH STANDARD MD - 383.91 AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - MINIMUM DEPTH PAYMENT PER "EACH" INLET INCLUDES DEPTHS UP TO 3'-6". VERTICAL DEPTH PAYMENT PER LINEAR FOOT INCLUDES DEPTHS IN EXCESS OF 3'-6".
 - A 6" PERFORATED CIRCULAR PIPE, FOR EROSION AND SEDIMENT CONTROL, SHALL BE PLACED IN THE INLET WALL AT ALL INLET SEDIMENT TRAPS AS SHOWN ON THE PLANS.
 - FOR USE IN NON-TRAFFIC LOCATIONS ONLY.

MODIFIED OPEN END GRATE
NOT TO SCALE



PROFILE
SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'



PROFILE
SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21114
410-461-2999



OWNERS
J. DAVID HULLINIX
ELIZABETH C. HULLINIX
14420 HOWARD ROAD
DAYTON, MARYLAND, 21036

PATRICIA LEE SCHWARZ
13384 TOLLY QUARTER ROAD
ELLCOTT CITY, MARYLAND, 21042-1247

DEVELOPER
J. THOMAS SCRIVENER, INC.
8808 CENTRE PARK DRIVE
SUITE 209
COLUMBIA, MARYLAND, 21145

No.	Revision	Date
1	Revise storm drain from 1-0 to the Ex. 1'-11" x 9'-7" C.M.P.A.	7-18-06

STORMDRAIN PROFILES
BUCKSKIN OAKS
LOTS 1 THRU 4, OPEN SPACE LOT 5,
BUILDABLE PRESERVATION PARCEL 'A' AND
NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
(A RESUBDIVISION OF LOT 5 - J. DAVID HULLINIX PROPERTY, PLAT NO. 14449)
ZONED: RR-DEO
TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: JUNE 20, 2005
SHEET 7 OF 13



Approved: Department Of Public Works
William J. White 12-1-05
 Chief, Bureau Of Highways

Approved: Department Of Planning And Zoning
Cindy Hamada 12/7/05
 Chief, Division Of Land Development

John Verminum 12/6/05
 Chief, Development Engineering Division

SCHEDULE A - PERIMETER LANDSCAPE EDGE

PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL, FENCE OR BSM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED & PROVIDED
						SHADE TREES EVERGREEN TREES SHRUBS
P-1	ADJACENT TO PERIMETER	A	324'	NO	NO	5
P-2	ADJACENT TO PERIMETER	A	808'	YES - 146'	NO	11
P-3	ADJACENT TO PERIMETER	A	237'	NO	NO	4
P-4	ADJACENT TO PERIMETER	A	161'	NO	NO	3

SCHEDULE D - STORMWATER MANAGEMENT AREA LANDSCAPING

LINEAR FEET OF PERIMETER	D1: 420'	D2: 165'	D3: 413'	D4: 264'
NUMBER OF TREES REQUIRED:				
SHADE TREES	8	3	8	5
EVERGREEN TREES	10	4	10	7
CREDIT FOR EXISTING VEGETATION (NO, YES AND %)	NO	NO	NO	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND %)	NO	NO	NO	NO
NUMBER OF TREES PROVIDED:				
SHADE TREES	8	3	8	5
EVERGREEN TREES	10	4	10	7
OTHER TREES (2:1 SUBSTITUTION)				

No.	Revision	Date
1	Revise storm drain from 1'-6" to the ex. 7'-11" x 5'-7" C.M.P.A.	7-19-06

DRAINAGE AREA DATA

STRUCTURE NO.	DRAINAGE AREA	AREA	'C'	ZONED	% IMP.
1-1	A	0.88 AC.	0.63	RR-DEO	54%
1-2	B	1.52 AC.	0.35	RR-DEO	14%
1-3	C	1.88 AC.	0.41	RR-DEO	23%
1-4	D	0.34 AC.	0.42	RR-DEO	25%
1-5	E	0.77 AC.	0.40	RR-DEO	22%
1-6	F	3.98 AC.	0.30	RR-DEO	7%

LANDSCAPING PLANT LIST

QTY.	KEY	NAME	SIZE
24	(Symbol)	ACER RUBRUM 'RED SUNSET' (RED SUNSET RED MAPLE)	2 - 2 1/2" CALIPER FULL CROWN, B&B
23	(Symbol)	ACER RUBRUM 'OCTOBER GLODY' (OCTOBER RED MAPLE)	2 - 2 1/2" CALIPER FULL CROWN, B&B
31	(Symbol)	PNUS STROBUS EASTERN WHITE PINE	6' - 8' HT.

"THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE 789 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$18,750.00.

LANDSCAPE PLAN AND STORM DRAIN DRAINAGE AREA MAP
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)



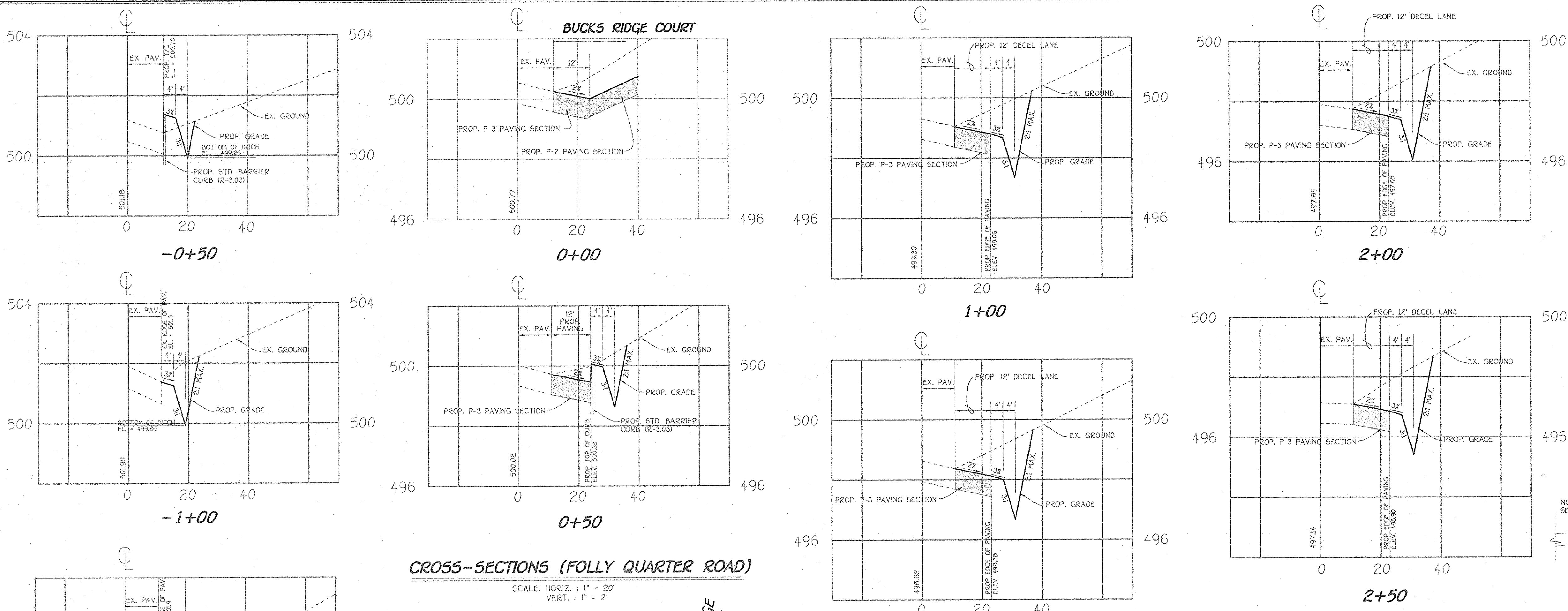
OWNERS
 J. DAVID MULLINX
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DEVELOPER
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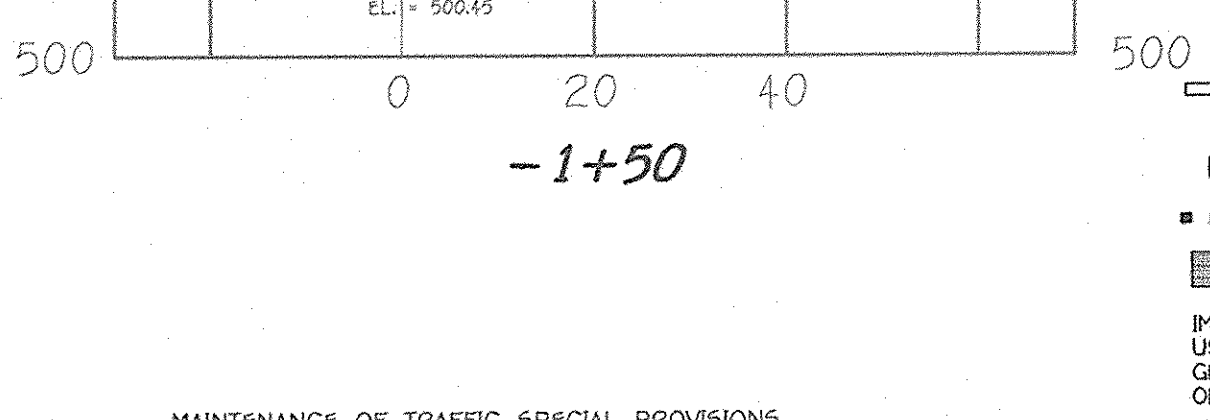
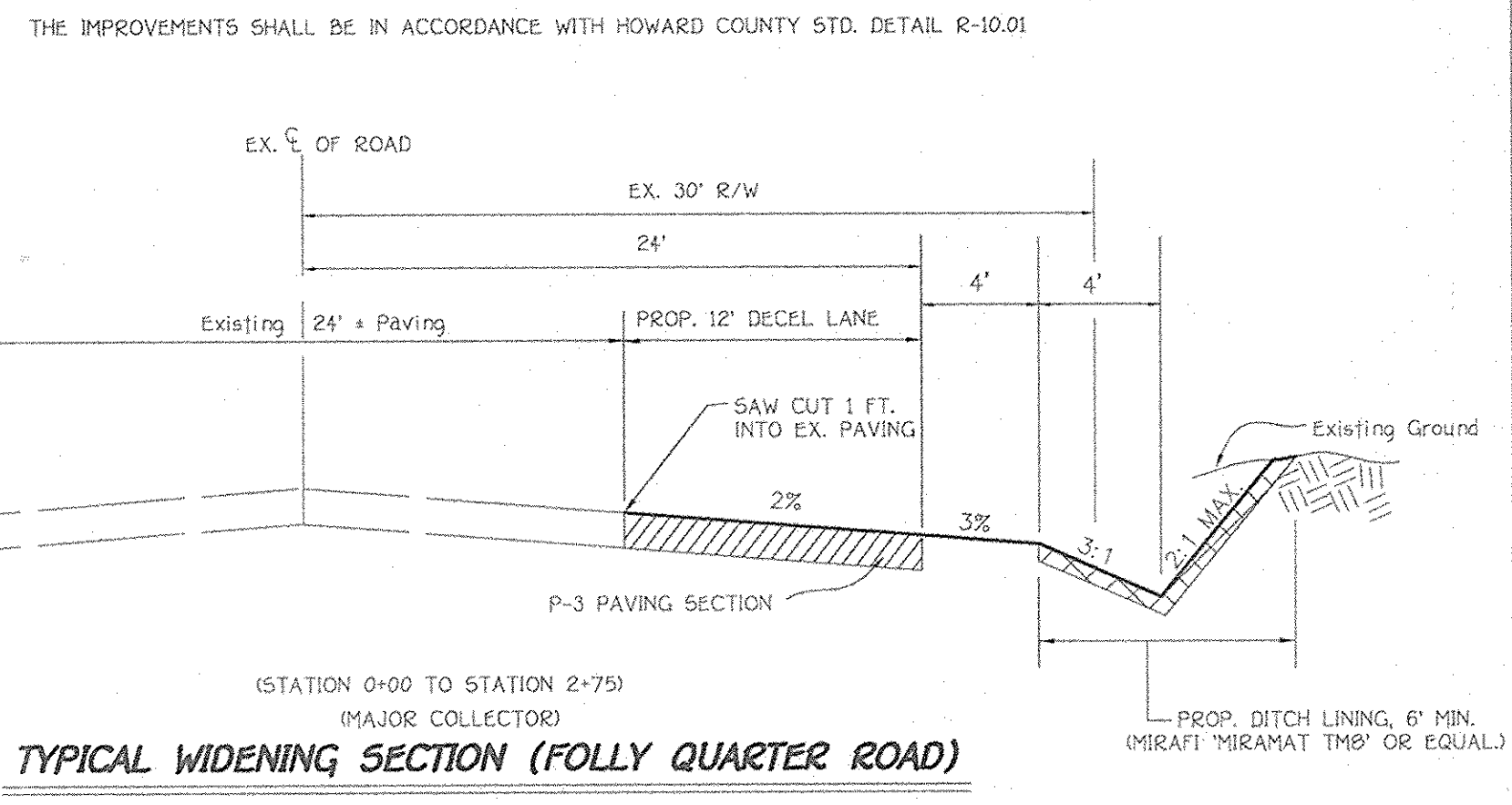
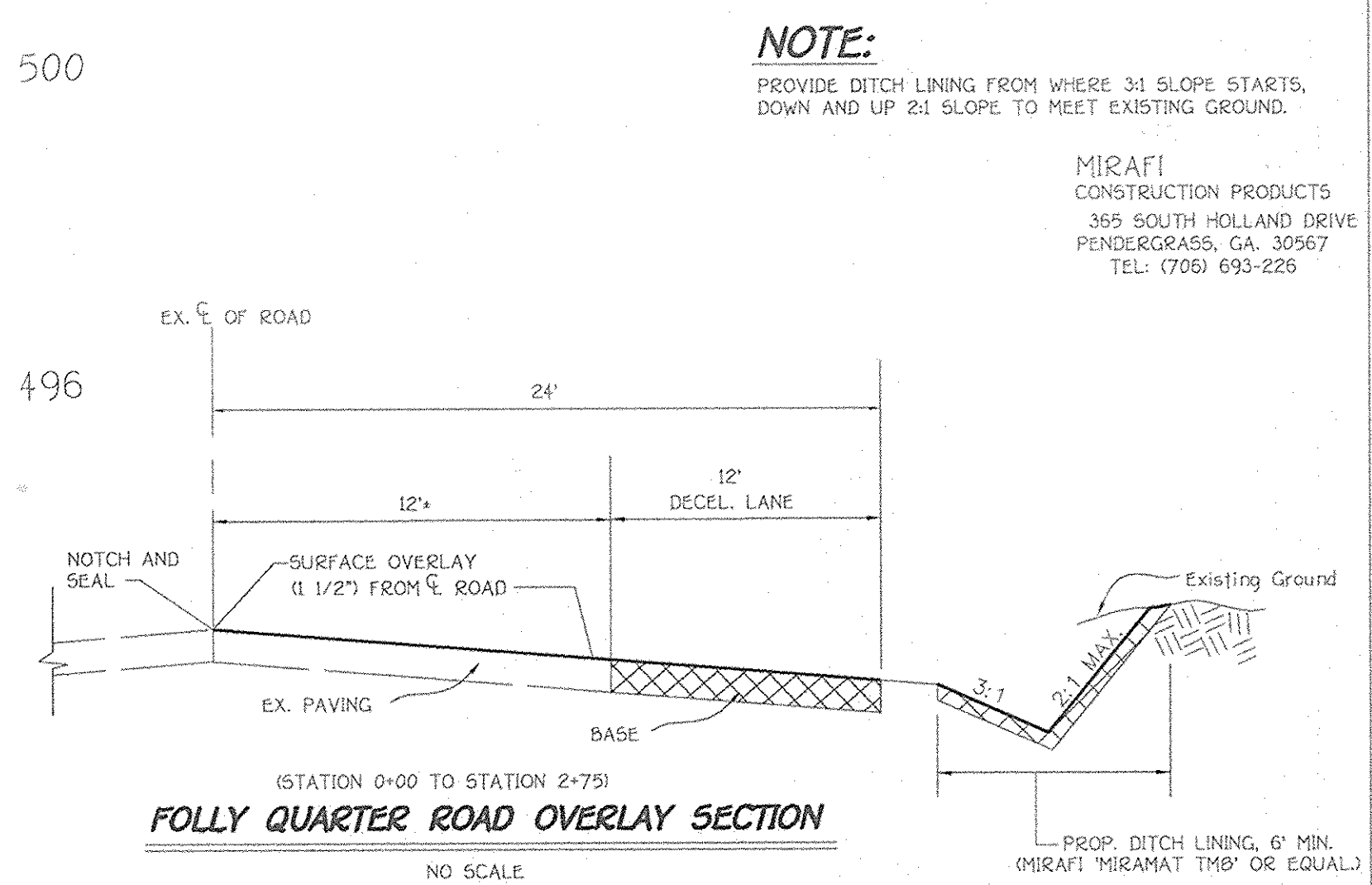
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS
 33 CENTENNIAL SQUARE OFFICE PARK - 10972 BALTIMORE NATIONAL PLACE
 CLINTON CITY, MARYLAND 20725
 410.767.2825

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cathy Hanrahan 12/7/05
 CHIEF, DIVISION OF LAND DEVELOPMENT JA DATE
Chris Williams 12/6/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION 89 DATE
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William T. Marshall 12-1-05
 CHIEF, BUREAU OF HIGHWAYS 142 DATE

REVISIONS		
NO.	DESCRIPTION	DATE
1	REVISE STORM DRAIN FROM I-6 TO THE EX. 7'-11" x 5'-7" C.M.P.A.	2/27/06

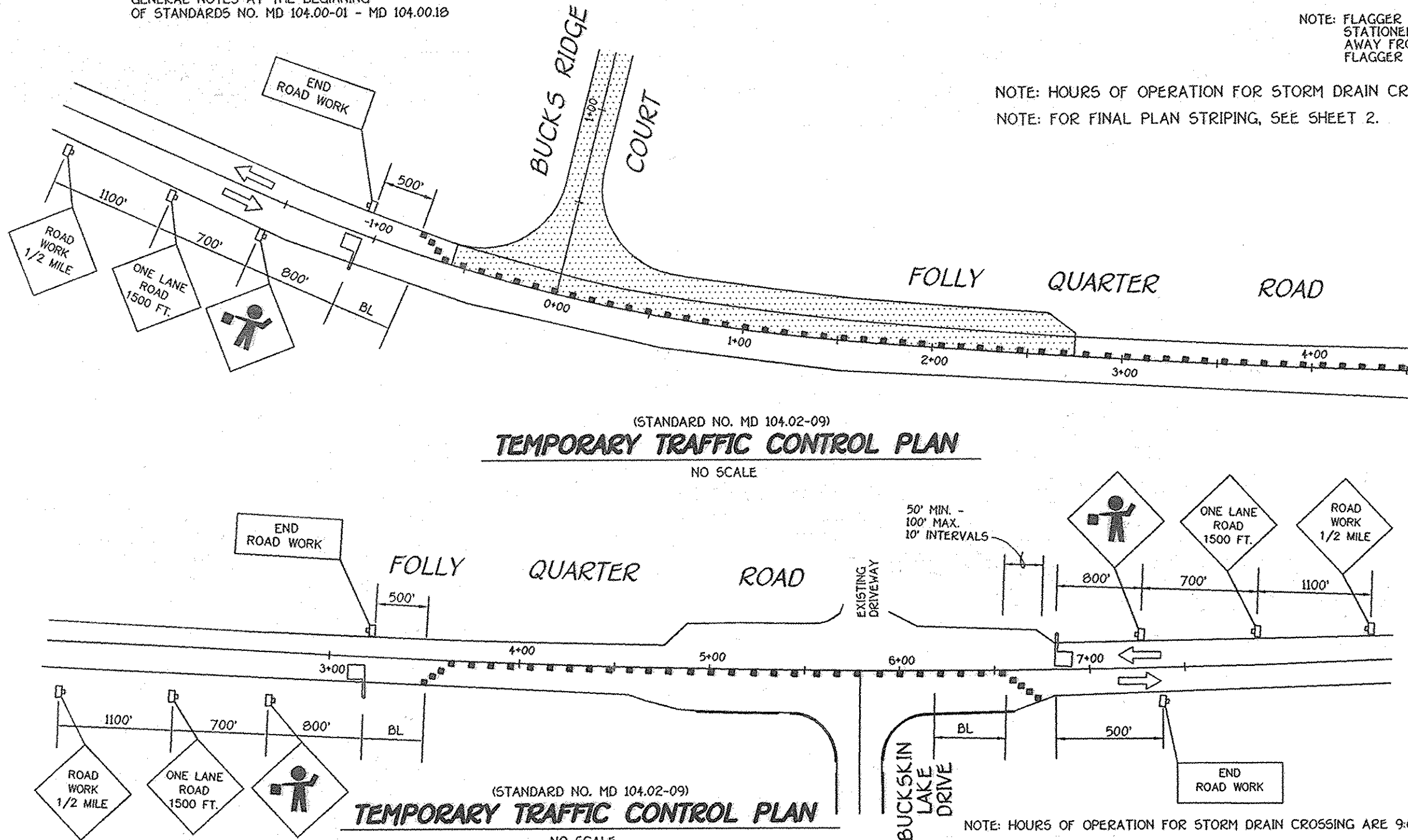
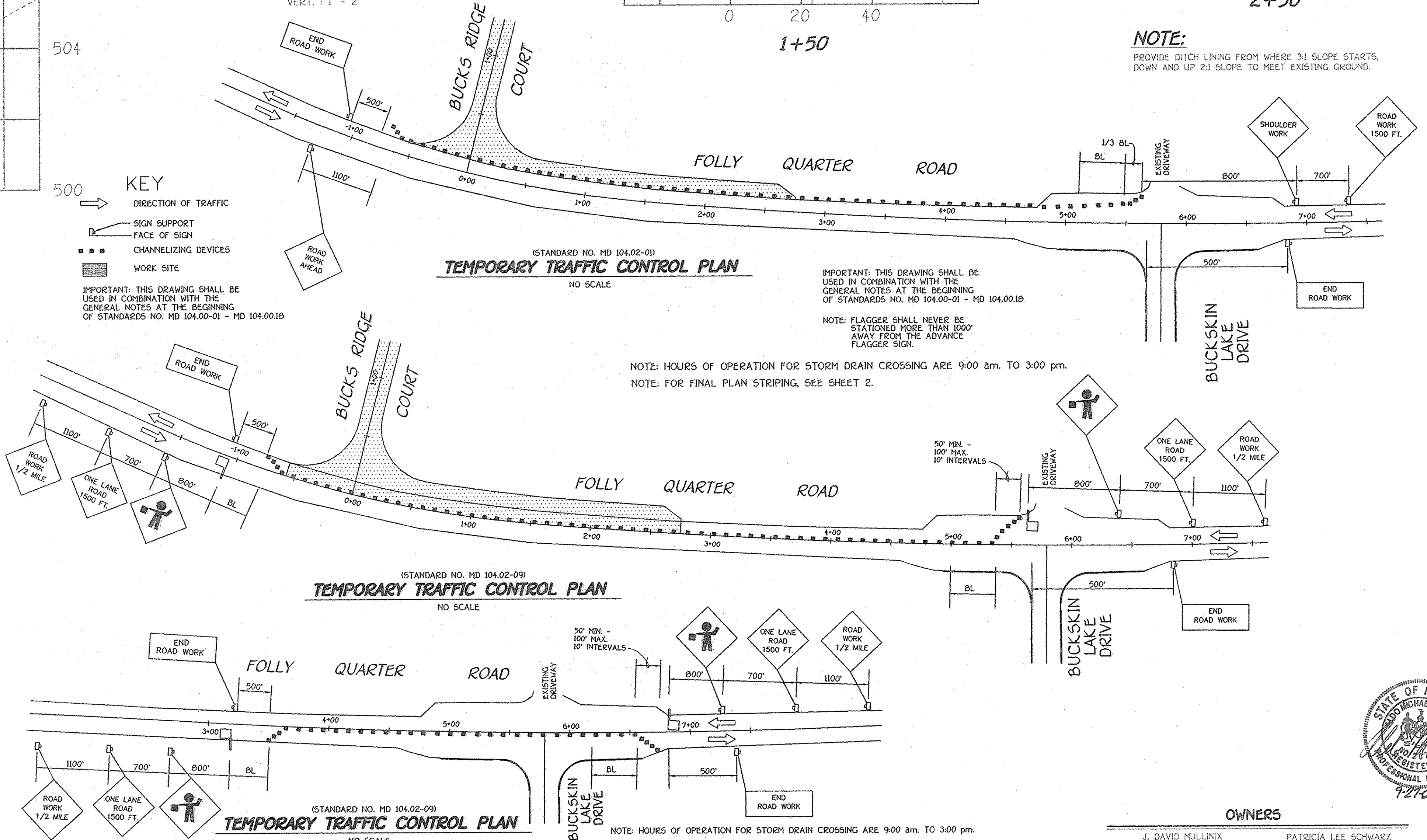


CROSS-SECTIONS (FOLLY QUARTER ROAD)
 SCALE: HORIZ. : 1" = 20'
 VERT. : 1" = 2'



GENERAL MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS

- THE PURPOSE OF THIS PORTION OF THE SPECIAL PROVISIONS IS TO SET FOR THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE TO TRAFFIC WITHIN WORK AREAS AND TO MINIMIZE ANY OBSTACLES TO THE TRAVELING PUBLIC AND THE CONTRACTOR AND/OR PERMITTEE.
- PROPER TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY AND THAT OF HIGHWAY WORKERS HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPER APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
- THROUGHOUT THESE SPECIAL PROVISIONS, ANY VIOLATION OF THE TCP SHALL BE PENALIZED TO REFLECT A MINIMUM OF THREE WORKING DAYS PRIOR TO THE PROPOSED OVERALL TCP FOR THIS PROJECT WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
- THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE PROVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, AND TO SECTION 8A OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY, 1995), INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH.
- THE CONTRACTOR AND/OR PERMITTEE SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS SET FORTH IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE WORKING DAYS PRIOR TO THE PROPOSED SCHEDULING CHANGE. THE CONTRACTOR AND/OR PERMITTEE SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
- NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TOP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE TO HAVE BEEN CHECKED FOR APPROVED USAGE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN PLACE UNTIL ALL REQUIRED TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC AND ANY ADDITIONAL SIGNING HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TOP IS NOT PERMITTED.
- THE CONTRACTOR AND/OR PERMITTEE SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY, OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS.
- ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION 8A OF THE SPECIFICATIONS. FOR REFLECTIVE DEVICES, A PRACTICE DEVICE IS ASSIGNED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETROREFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 80% OF THE VISIBLE REFLECTIVE SURFACE.
- ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IF IT IS INTENDED THAT THE TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR OUT REASON FOR THE DEVICE.
- THROUGHOUT THE PERIOD OF TRAFFIC CONTROL ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPLEMENTING THE APPROVED TOP. IN LIEU OF THE TCP PREPARED FOR THIS PROJECT, INDIVIDUAL TRAFFIC CONTROL STANDARDS, THE CONTRACTOR AND/OR PERMITTEE HAD THE OPTION OF PREPARING AND SUBMITTING A TOP, WHOLLY OR IN PART, BY HIS OWN DESIGN. THE CONTRACTOR AND/OR PERMITTEE SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ANY TOP DEVELOPED BY THE CONTRACTOR AND/OR PERMITTEE. SUCH TOPS SHALL NOT BE IMPLEMENTED UNTIL WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. TOPS MAY BE IMPLEMENTED WITHIN A SINGLE PROJECT OR JOINTLY BETWEEN TWO OR MORE PROJECTS. IN SITUATIONS WHERE TOPS ARE JOINTLY IMPLEMENTED, CARE SHALL BE EXERCISED TO PRESENT CORRECT AND NON-CONFLICTING GUIDANCE TO THE TRAVELING PUBLIC.
- THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER UNLESS OTHERWISE NOTED.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT UNLESS OTHERWISE NOTED. NO TRAVEL LANES OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TOP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL REQUESTS AND REQUESTS TO THE WORK AREA BY THE CONTRACTOR AND/OR PERMITTEE SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK • 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 410-461-8932



OWNERS
 J. DAVID MULLINX
 ELIZABETH C. MULLINX
 14420 HOWARD ROAD
 DAYTON, MARYLAND, 21036

DEVELOPER
 PATRICIA LEE SCHWARZ
 13384 FOLLY QUARTER ROAD
 ELLICOTT CITY, MARYLAND, 21042-1247

OWNER
 J. THOMAS SCRIVENER INC.
 8808 CENTER PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21145

**FOLLY QUARTER ROAD CROSS-SECTIONS
 BUCKSKIN OAKS**
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449J)
 ZONED: R2-DEO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 5 OF 13

By The Developer:
 "I hereby certify that all development and/or construction will be done according to these plans and that any responsible personnel involved in the construction project will have a certificate of attendance at a department of the environment approved training program for the control of sediment and erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'As-Built' Plan of the Pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Signature: *William Green* Date: 9/25/09
 Printed Name of Developer: *William Green*
 By The Engineer:
 "I certify that the proposed Pond Construction, Erosion and Sediment Control Represents A Practical Approach to the Problem Based on My Personal Knowledge of the Site Conditions. This Plan Was Prepared in Accordance with the Requirements of the Howard Soil Conservation District. I Have Reviewed the Plans and I hereby certify that I am a Registered Professional Engineer To Supervise Pond Construction and Provide the Howard Soil Conservation District with an 'As-Built' Plan of the Pond within 30 days of completion."

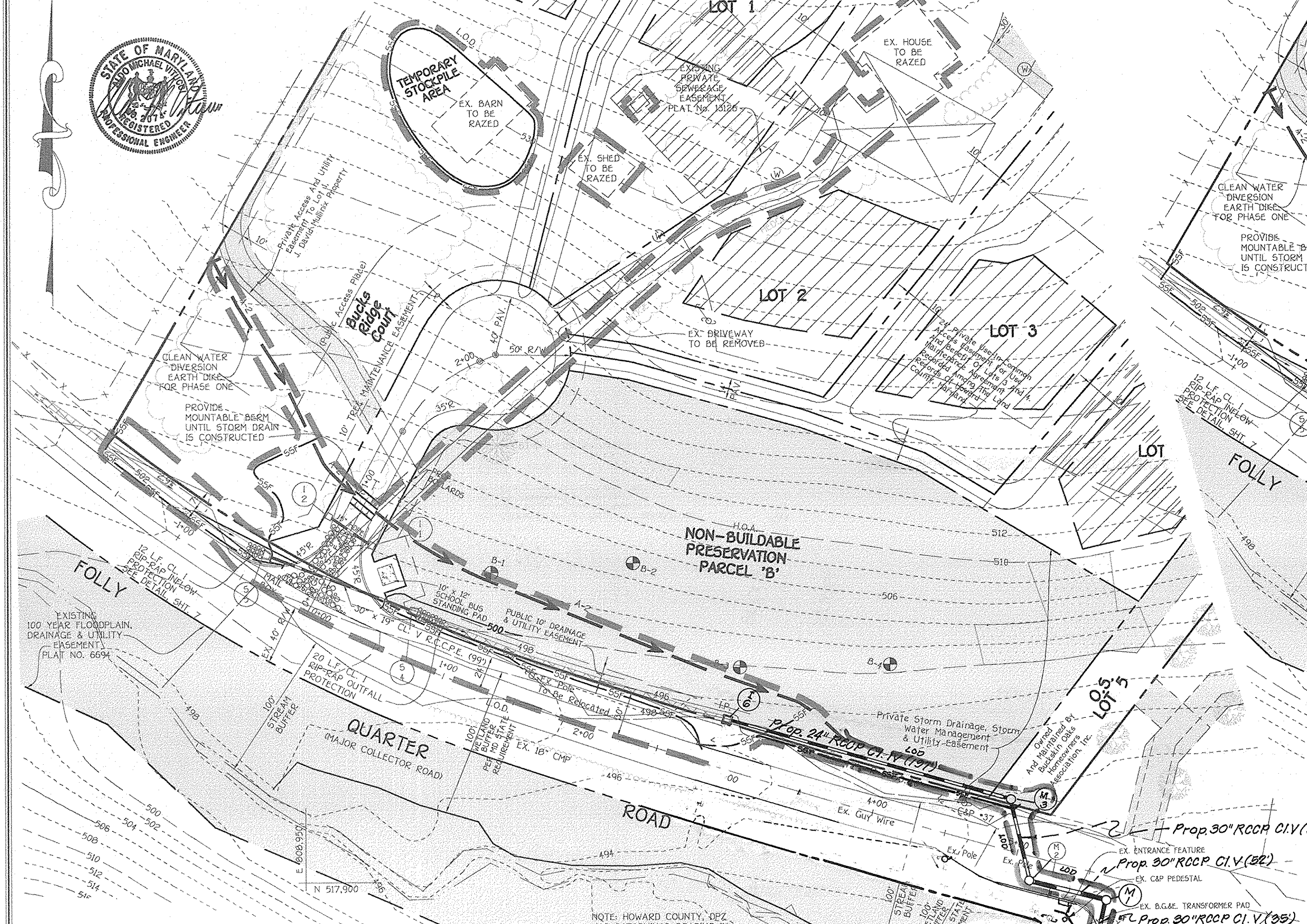
Signature: *John M. ...* Date: 9-27-05
 Printed Name of Engineer: *John M. ...*
 These Plans Have Been Reviewed for the Howard Soil Conservation District and Meet the Technical Requirements for Small Pond Construction, Soil Erosion and Sediment Control.
 Signature: *John M. ...* Date: 11/20/05
 Approved Department of Public Works: *William ...* Date: 12-1-05
 Approved Department of Planning and Zoning: *Charles ...* Date: 12/1/05

AS-BUILT CERTIFICATION
 I hereby certify that the facility shown on this plan was constructed as shown on the 'As-Built' Plans and Meets the Approved Plans and Specifications.
 Signature: _____ P.E. No. _____
 Date: _____

Certify Means to State or Declare a Professional Opinion Based Upon On-site Inspections and Material Tests Which are Conducted During Construction. The On-site Inspections and Material Tests are Those Inspections and Tests Deemed Sufficient and Appropriate Commonly Accepted Engineering Standards. Certify Does Not Mean or Imply a Guarantee by the Engineer Not Does an Engineer's Certification Relieve Any Other Party From Meeting Requirements Imposed by Contract, Employment or Other Means, Including Meeting Commonly Accepted Industry Practices.

DRAINAGE AREA (ACRES)	RCN	Tc (HRS.)	Q/Qa - STORM EVENT - YEARS		
			1	10	100
B.M.P. NO. 1 7.64 AC.	69	0.23	3.37 c.f.s. 0.47 in.	17.29 c.f.s. 2.04 in.	32.69 c.f.s. 3.70 in.
BY-PASS AREA 1A 4.94 AC.	66	0.20	1.52 c.f.s. 0.35 in.	10.22 c.f.s. 1.77 in.	19.81 c.f.s. 3.32 in.
PROPOSED POND RELEASE RATES	Q c.f.s.		0.07	4.7	15.4
	ADDHYD BY-PASS AREA Q TOTAL (c.f.s.)		1.70	12.2	29.7
ALLOWED RELEASE RATES 11.97 AC.	W.S. ELEVATION		497.41	498.31	499.30
		0.20	2.10 c.f.s.	20.34 c.f.s.	42.07 c.f.s.

- LEGEND**
- SSP-SSP-SSP SUPER-SILT FENCE
 - SF-SF-SF SILT FENCE
 - TP-TP-TP TREE PROTECTION FENCE
 - S.C.E. STABILIZED CONSTRUCTION ENTRANCE
 - EARTH DIKE
 - DNOTES L.O.D. LIMITS OF DISTURBANCE
 - DNOTES EROSION CONTROL MATTING (TO BE PLACED IN ALL ROADWAY DITCHES AND IN ALL SWALES)
 - DNOTES SLOPE SYMBOL
 - DNOTES REMOVABLE PUMPING STATION
 - DNOTES FIBER INFLOW PROTECTION
 - DNOTES FILTER BAG
 - DNOTES AREA TREATED BY GRASS CHANNEL CREDIT FOR Rev
 - DNOTES INLET PROTECTION
 - R.P.S.
 - G.I.P.
 - F.B.
 - I.P.



SYMBOL	QTY.	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
(Symbol)	12	PLATANUS X ACERIFOLIA 'BLOODGOOD'	2 1/2"-3" CAL.	40' APART ON PUBLIC R/W
(Symbol)		BLOODGOOD LONDON PLANE		

FINANCIAL SURETY FOR THE 12 REQUIRED STREET TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 3,600.00.
 NOTE: STREET TREE TYPE IS ONLY A RECOMMENDATION AND MAY BE REVISED TO AN ACCEPTABLE COUNTY EQUIVALENT FROM THE HOWARD COUNTY LANDSCAPE MANUAL.

NO	DESCRIPTION	DATE
1	Revise storm Drain from 1-6 to the ex. 7-11" x 5-7" CMPA.	7-19-06

STREET TREE, GRADING & SEDIMENT CONTROL PLAN
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5, BUILDABLE PRESERVATION PARCEL 'A' AND NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)
 ZONED RR-06C
 TAX MAP NO. 22 GRID NO. 15 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 4 OF 13

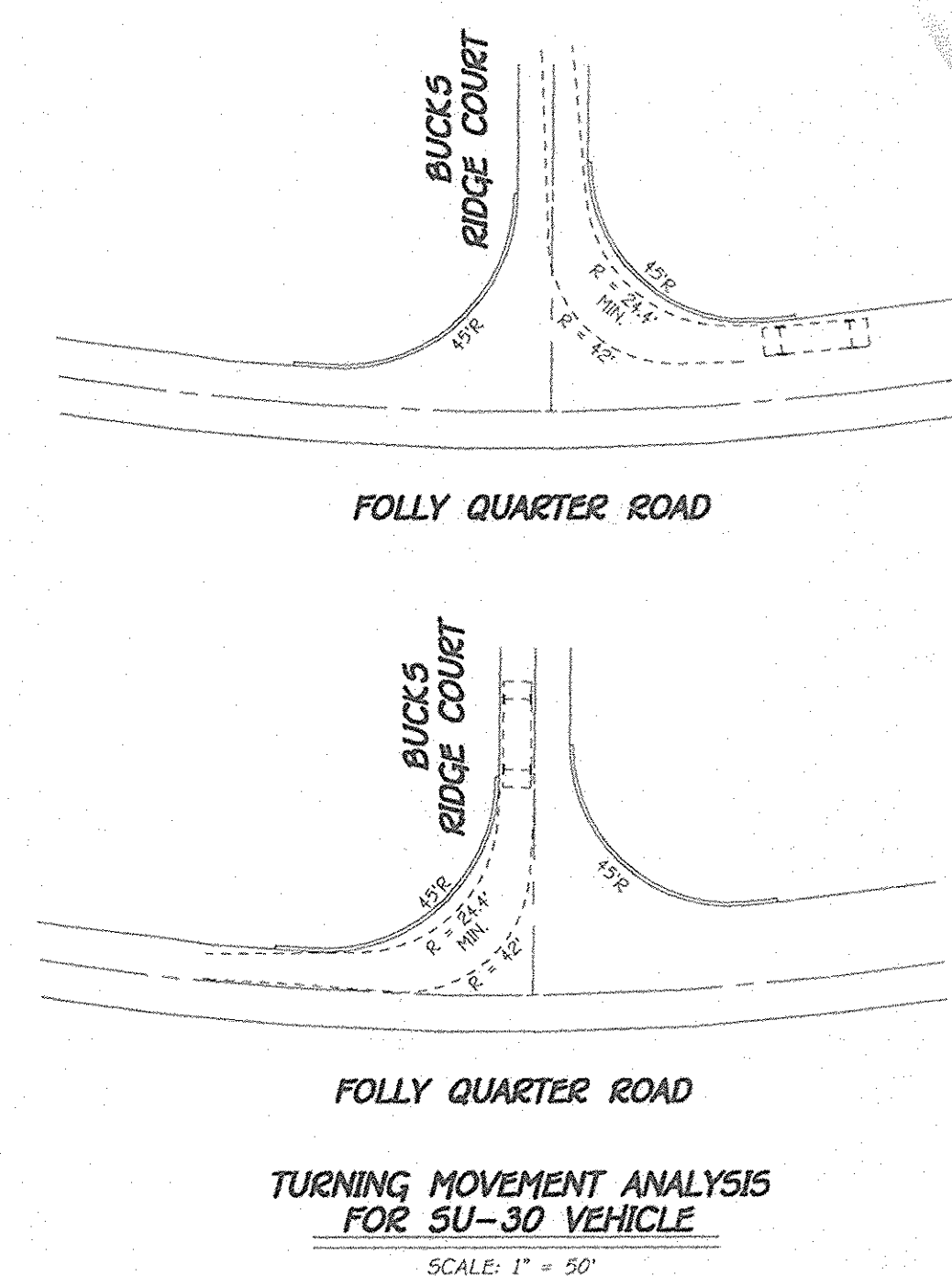
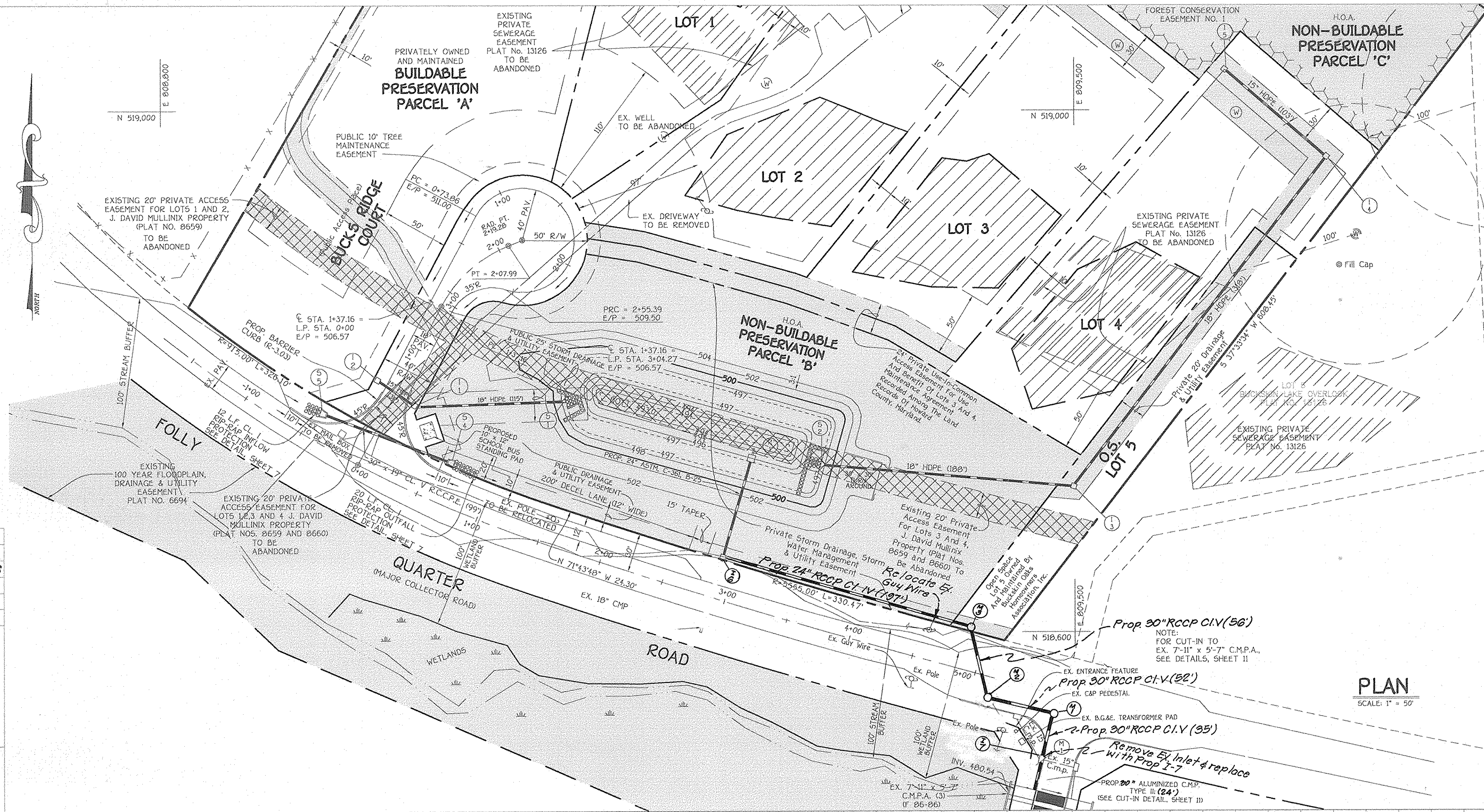
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 3272 BALDWIN NATIONAL PKWY
 ELICOTT CITY, MARYLAND 21042
 410-415-3999

OWNERS
 J. DAVID MULLINX
 ELIZABETH C. MULLINX
 14420 HOWARD ROAD
 DAYTON, MARYLAND, 21036

PATRICIA LEE SCHWARZ
 13394 FOLLY QUARTER ROAD
 ELLICOTT CITY, MARYLAND, 21042-1247

DEVELOPER
 J. THOMAS SCRIVENER INC.
 8808 CENTRE PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21145

BUCKS RIDGE COURT
 CURVE DATA
 STA. 1+37.16 TO STA. 2+07.99
 RADIUS = 101.44'
 ARC LENGTH = 70.83'
 TAN. = 35.93'
 DELTA = 40°00'33"
 CHORD = 47°53'52"E. 69.40'



NO.	REVISIONS	DATE
1	Revise storm drain from I-G to the ex. 7'-11\"/>	7-19-06

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Wendy Hancock 12/7/05
 CHIEF, DIVISION OF LAND DEVELOPMENT
Carol Pannunzio 12/6/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William T. Umbach 12-1-05
 CHIEF, BUREAU OF HIGHWAYS

BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14491)
 ZONED: RR-BLD
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

BUCKS RIDGE COURT
 PLAN AND PROFILE

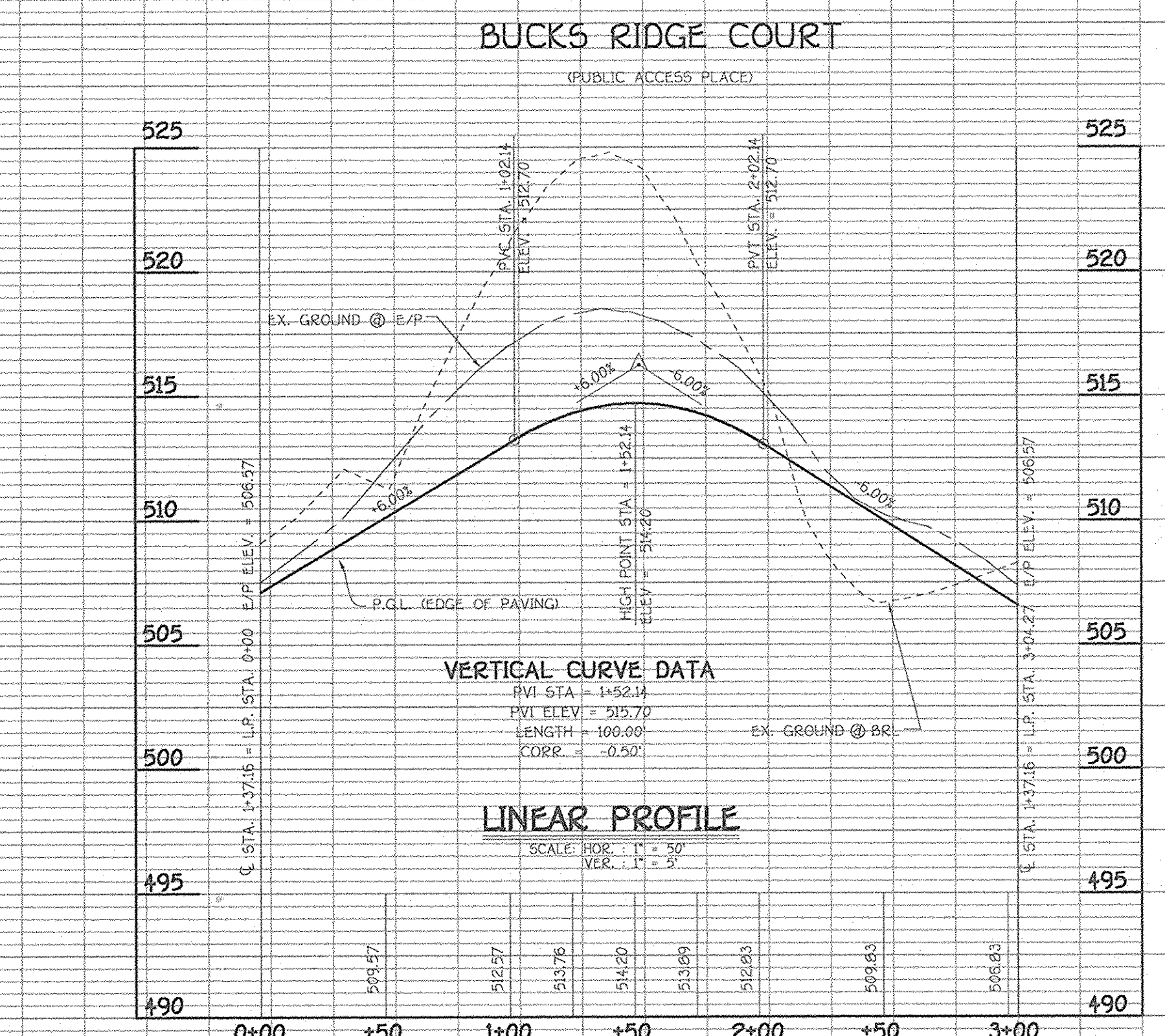
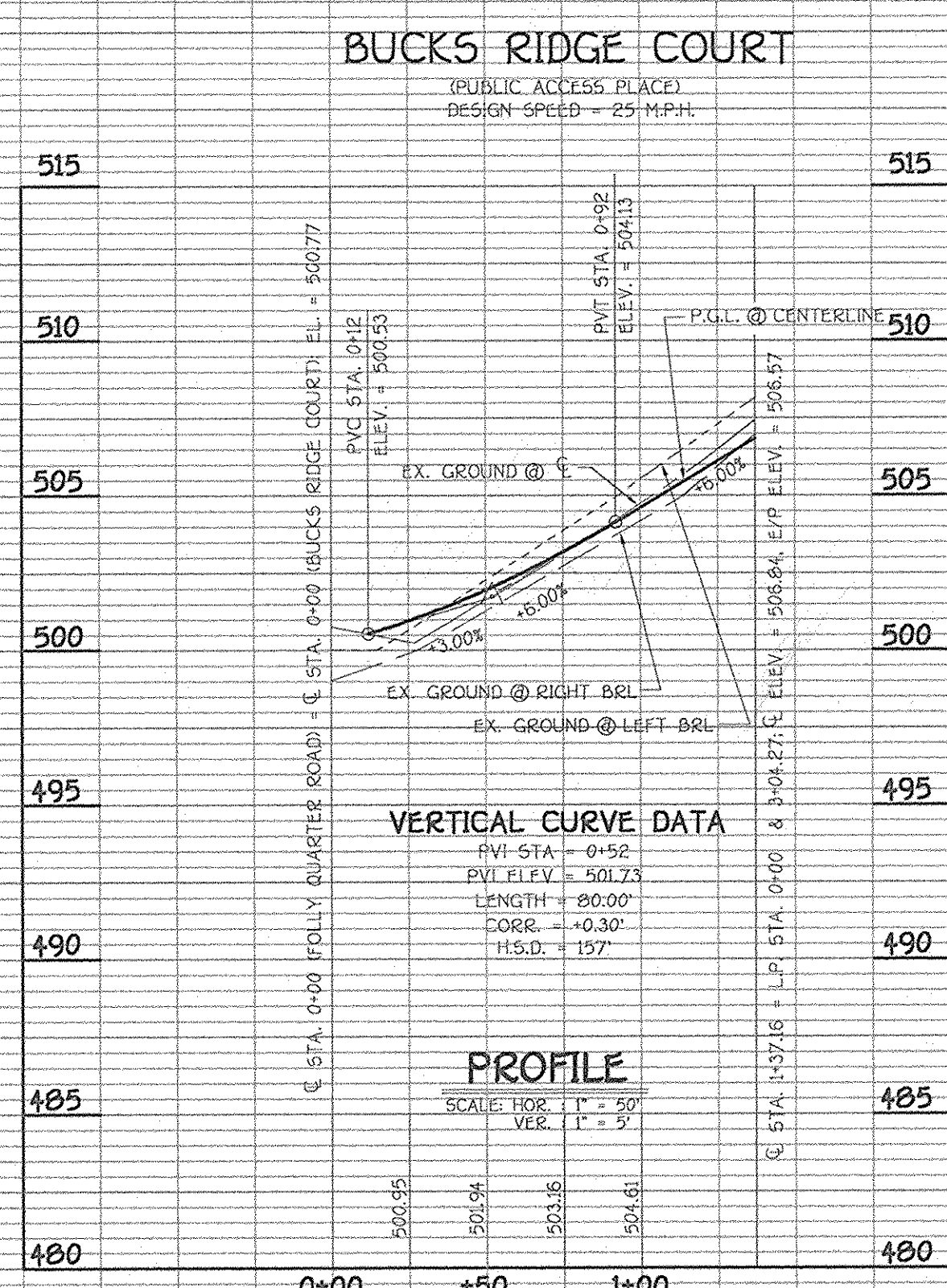
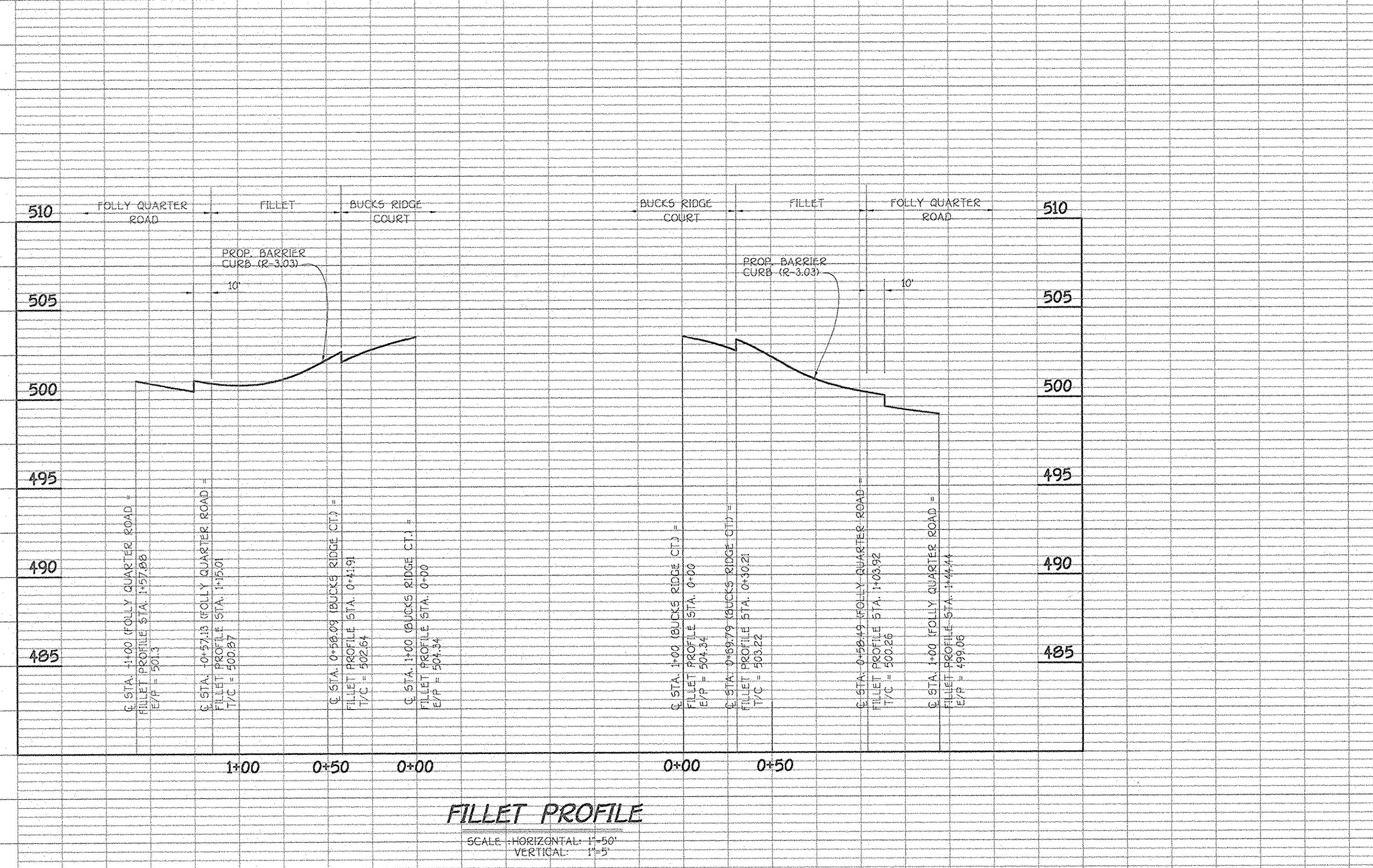
OWNERS
 J. DAVID MULLINX
 ELIZABETH C. MULLINX
 1402 HOWARD ROAD
 DAYTON, MARYLAND, 21036

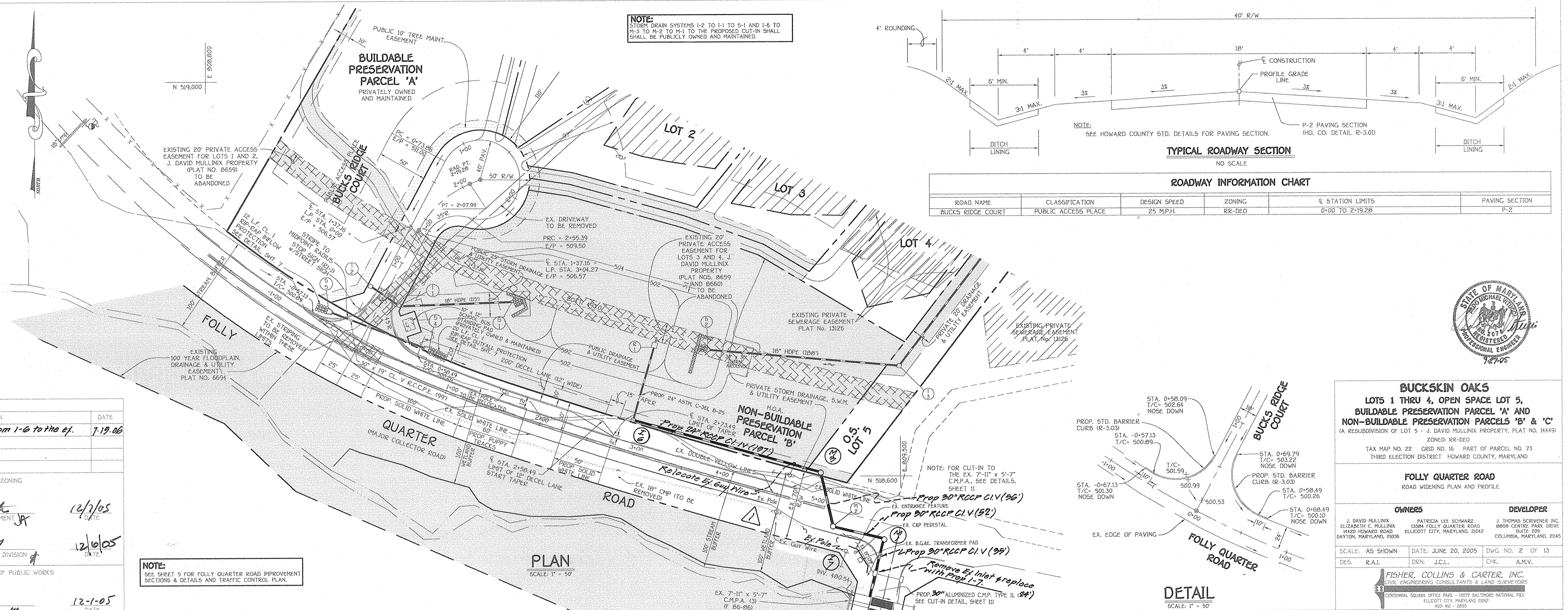
DEVELOPER
 PATRICIA LEE SCHWARZ
 13304 FOLLY QUARTER ROAD
 ELICOTT CITY, MARYLAND, 21042

J. THOMAS SCRIVENER INC.
 8808 CENTER PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21045

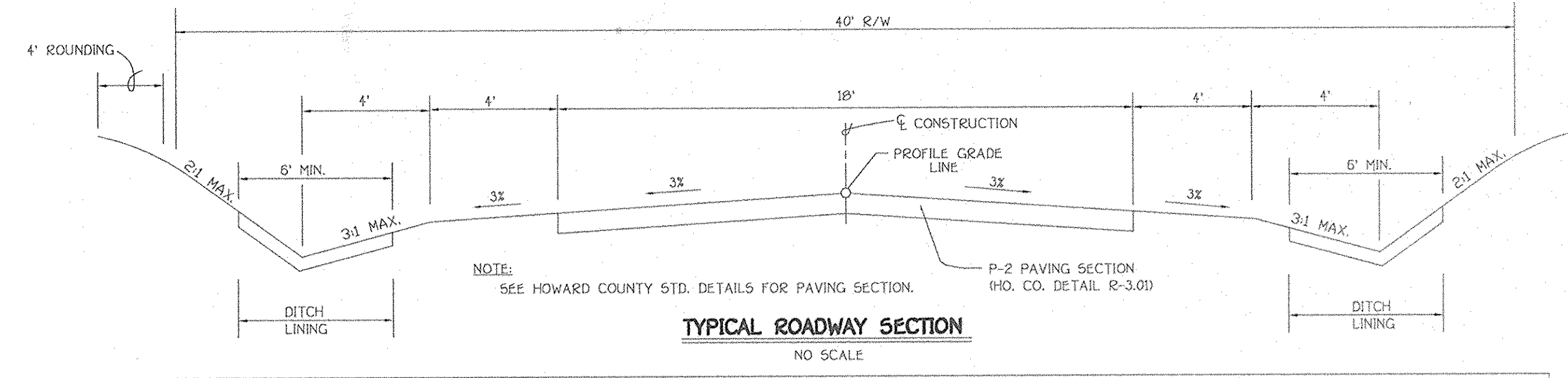
SCALE: AS SHOWN DATE: JUNE 20, 2005 DWG. NO. 3 OF 13
 DES. R.A.I. DRN. J.C.L. CHK. A.M.V.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 301.461.8800



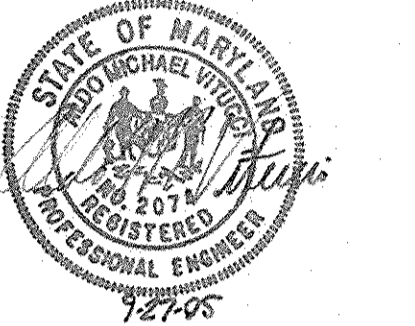


NOTE:
STORM DRAIN SYSTEMS I-2 TO I-1 TO S-1 AND I-6 TO M-3 TO M-2 TO M-1 TO THE PROPOSED CUT-IN SHALL BE PUBLICLY OWNED AND MAINTAINED.



ROADWAY INFORMATION CHART

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	STATION LIMITS	PAVING SECTION
BUCKS RIDGE COURT	PUBLIC ACCESS PLACE	25 MPH.	RR-DEO	0+00 TO 2+19.28	P-2



BUCKSKIN OAKS
LOTS 1 THRU 4, OPEN SPACE LOT 5,
BUILDABLE PRESERVATION PARCEL 'A' AND
NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
(A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 14449)

TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FOLLY QUARTER ROAD
ROAD WIDENING PLAN AND PROFILE

OWNERS
J. DAVID MULLINX
ELIZABETH C. MULLINX
18429 HOWARD ROAD
DAYTON, MARYLAND, 21036

DEVELOPER
PATRICIA LEE SCHWARTZ
13899 FOLLY QUARTER ROAD
ELKOTT CITY, MARYLAND, 21042

J. THOMAS SCRIVENER INC.
8809 CENTRE PARK DRIVE
COLUMBIA, MARYLAND, 21045

SCALE: AS SHOWN DATE: JUNE 20, 2005 DWG. NO. 2 OF 13
DES. R.A.L. DRN. J.C.L. CHK. A.M.V.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FILE
ELKOTT CITY, MARYLAND 21042
AUG 63 - 2005

REVISIONS

NO.	DESCRIPTION	DATE
1	Revise storm drain from I-6 to the ex. 7'-11" x 5'-7" C.M.P.A.	7-19-06

APPROVED: DEPARTMENT OF PLANNING AND ZONING

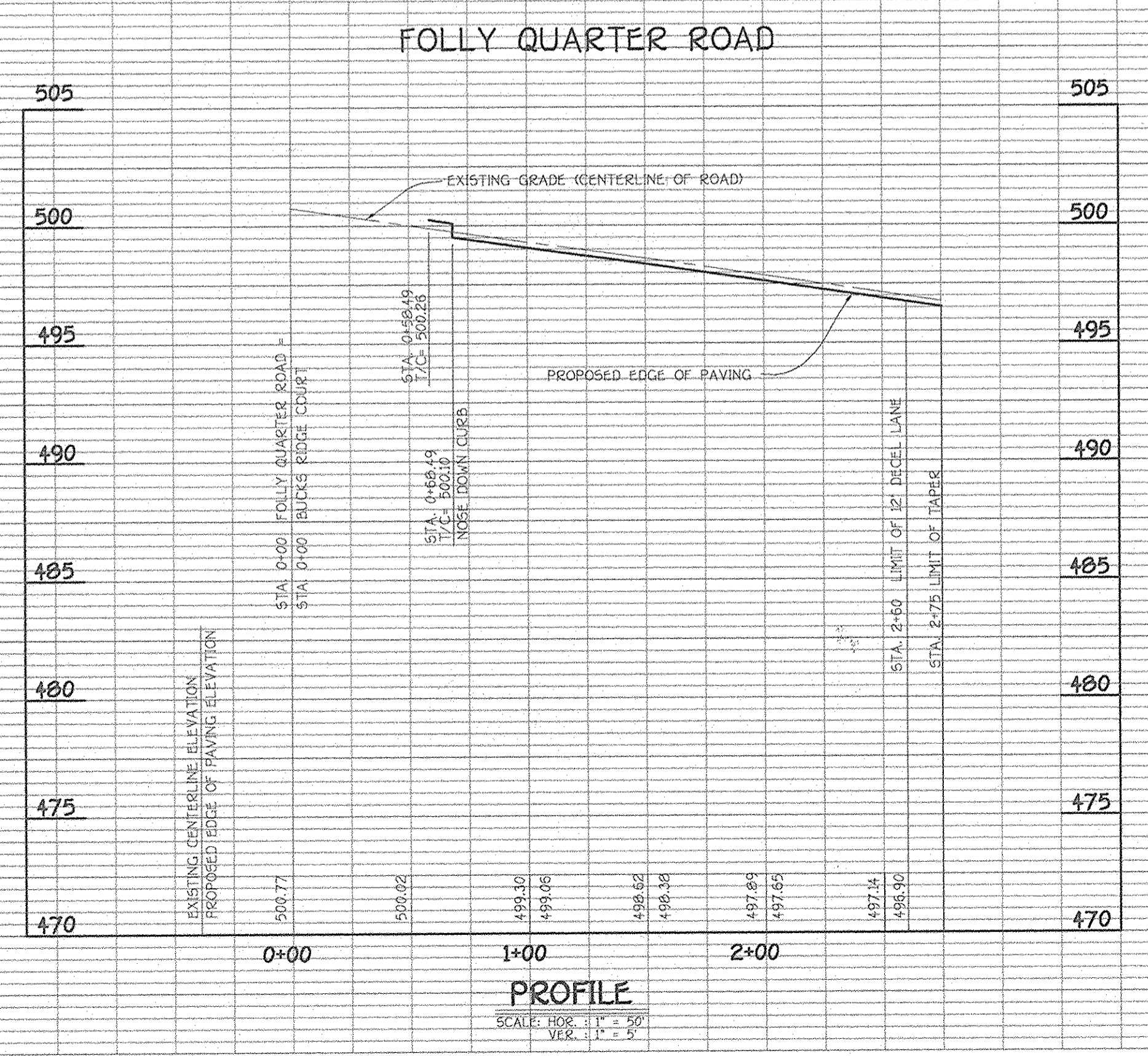
Cindy Hamrick 12/1/05
CHIEF, DIVISION OF LAND DEVELOPMENT

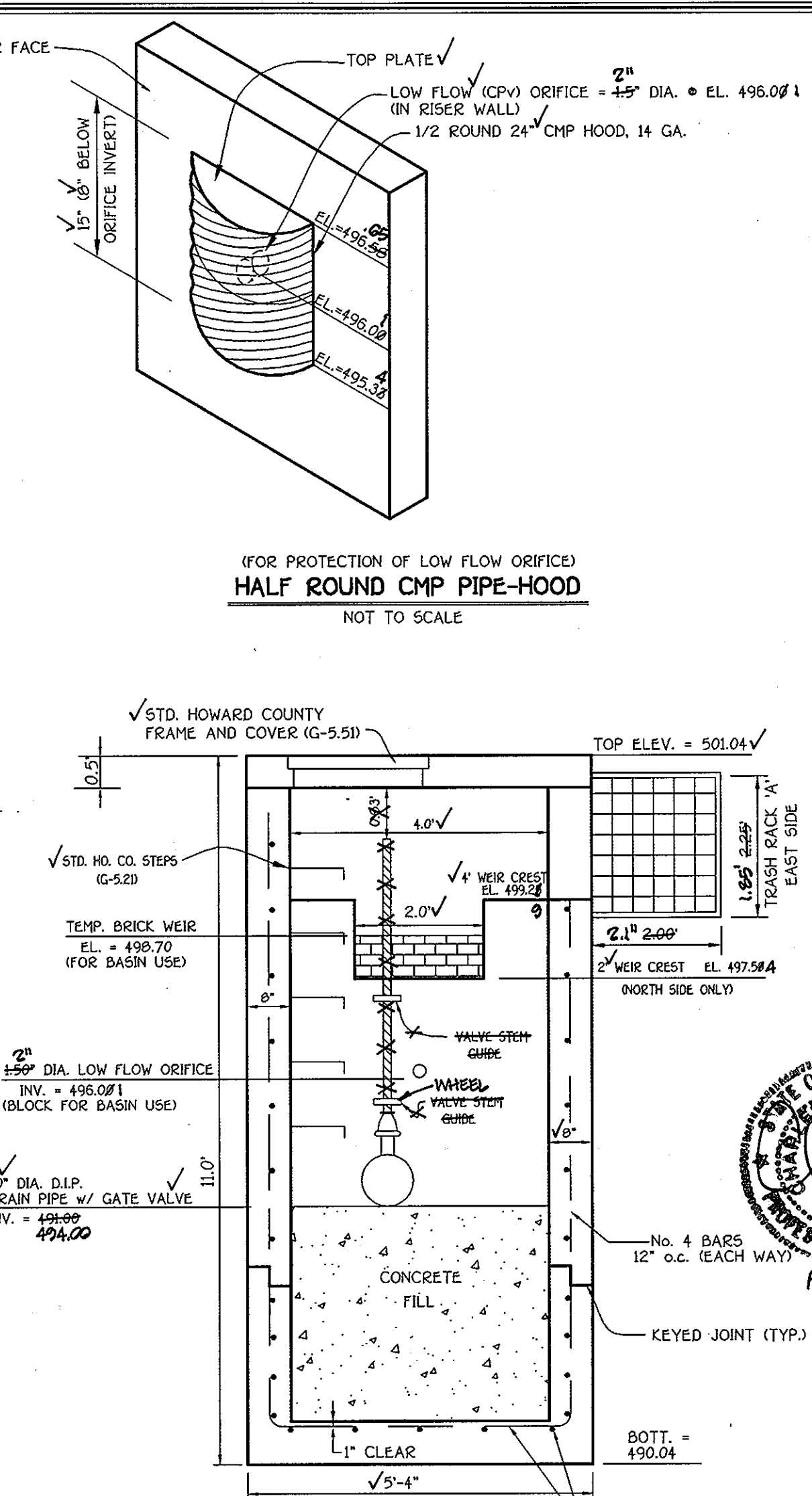
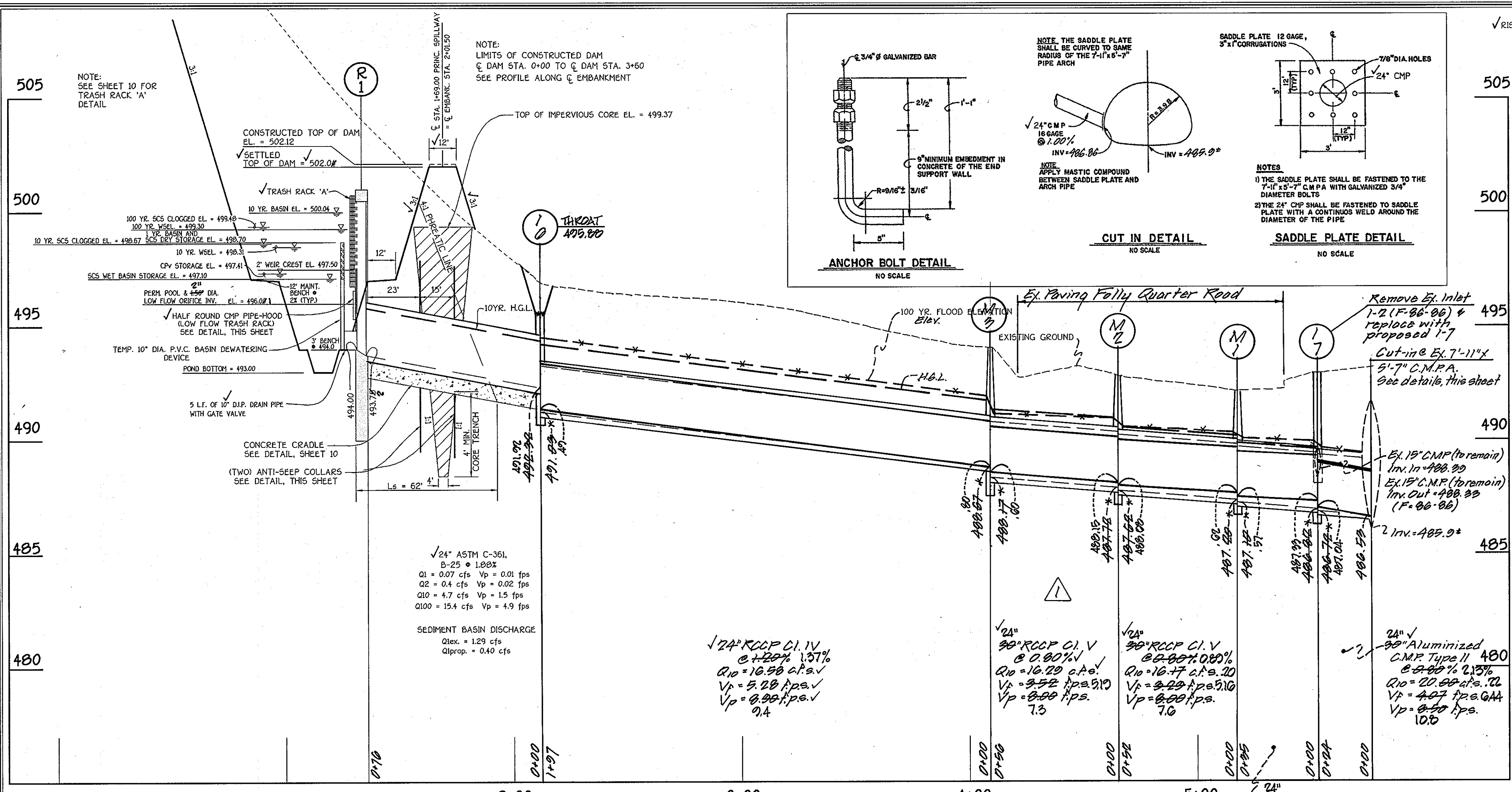
Allen D. Williams 12/10/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

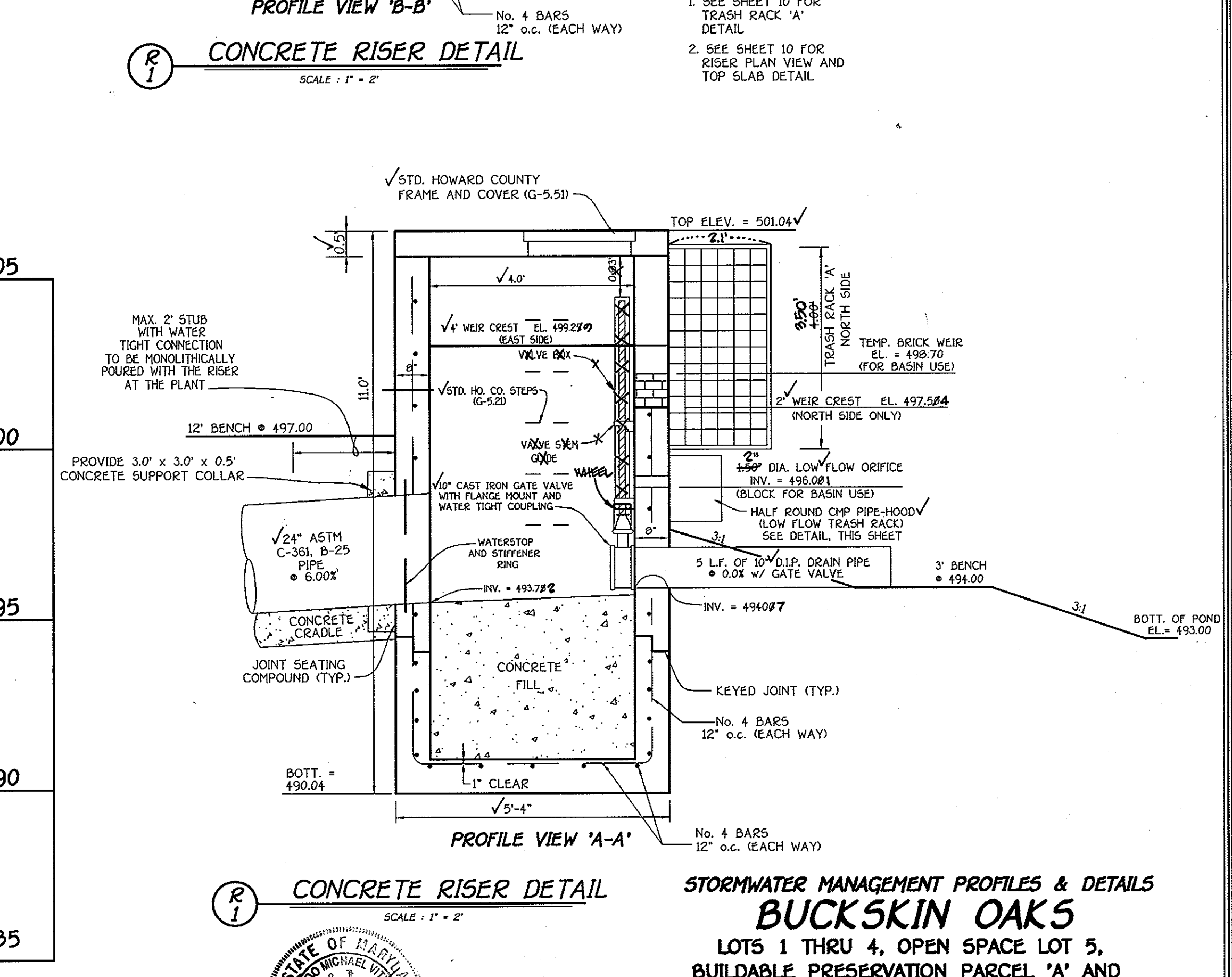
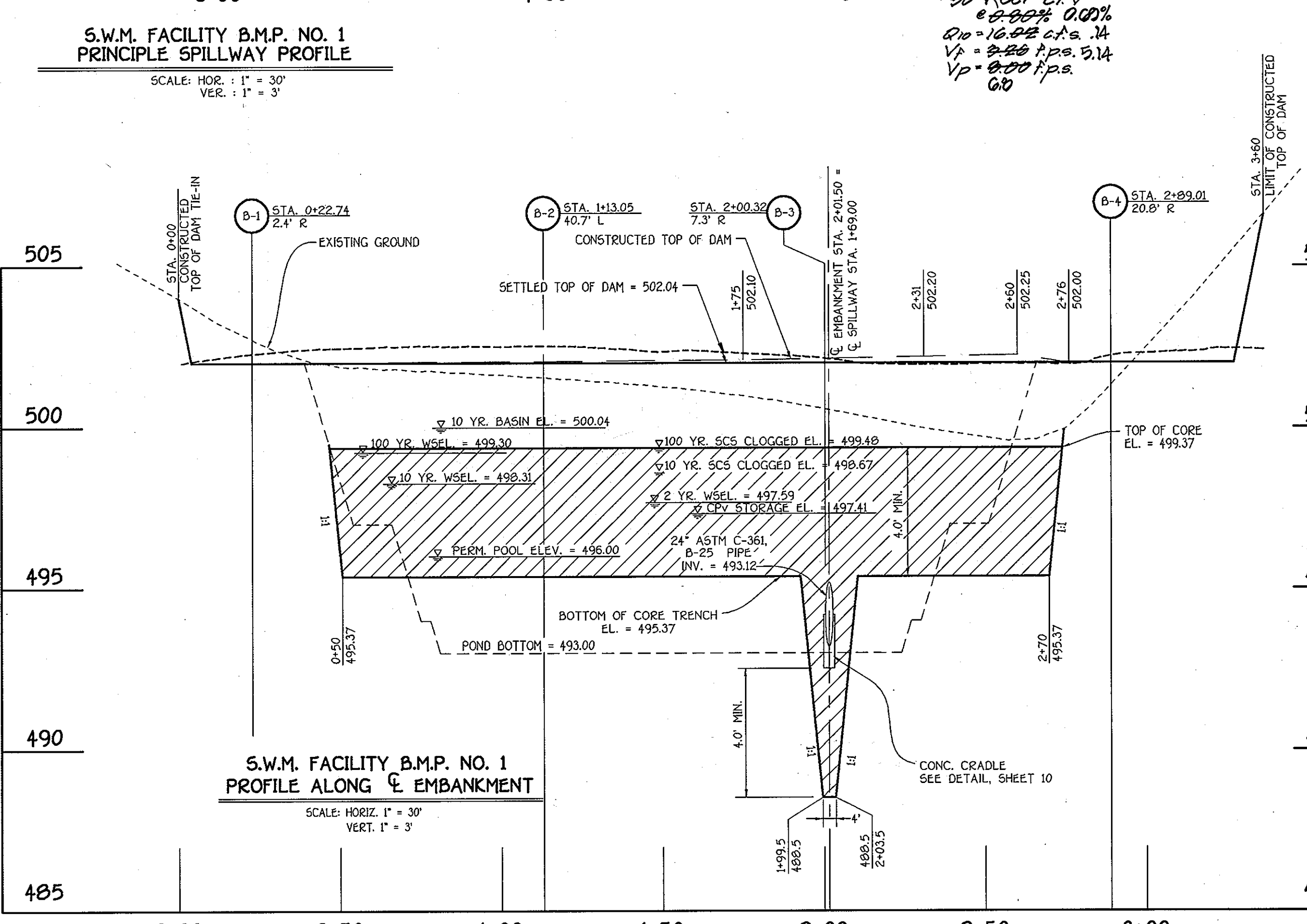
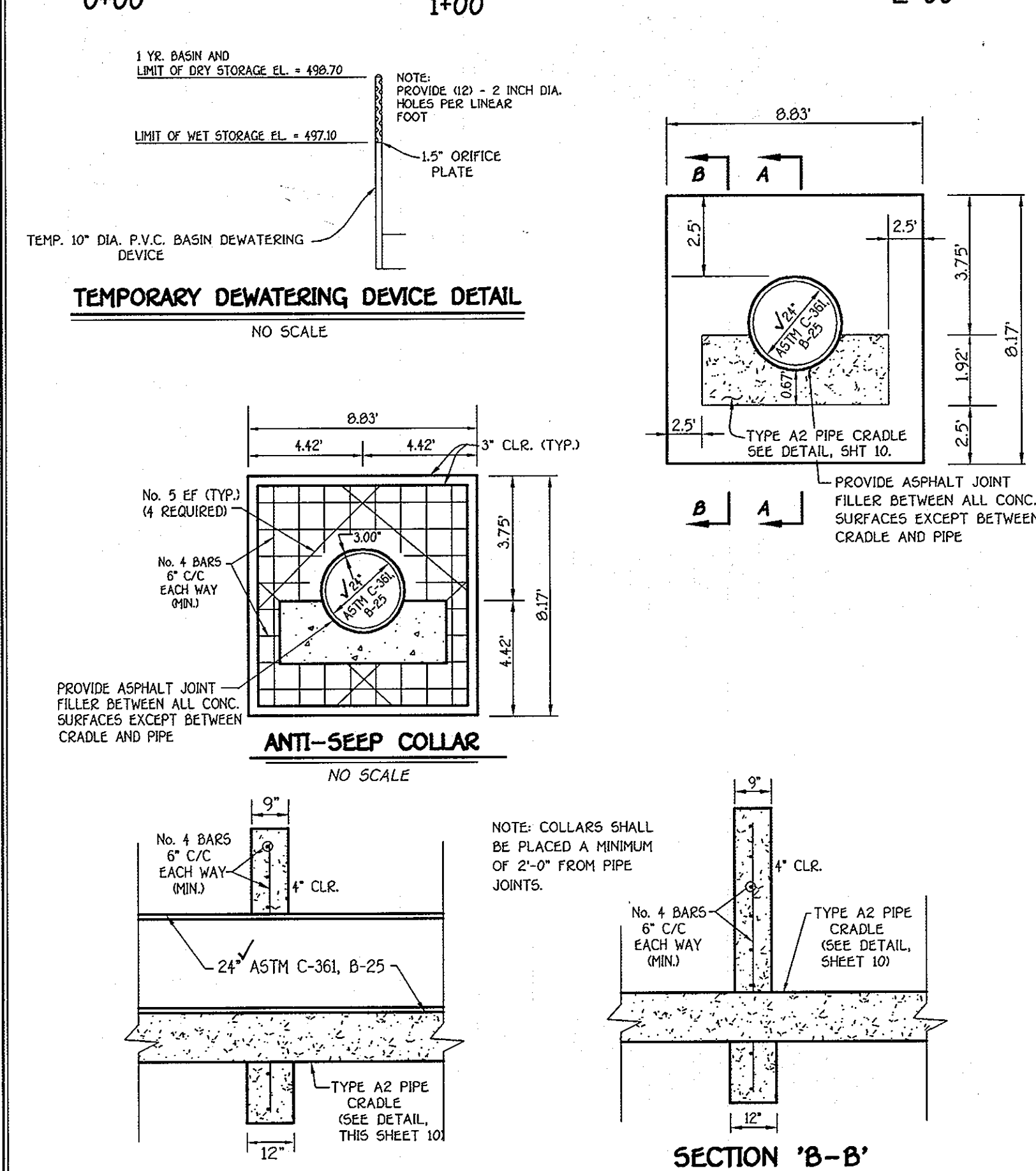
William F. Oberholser 12-1-05
CHIEF, BUREAU OF HIGHWAYS

NOTE:
SEE SHEET 5 FOR FOLLY QUARTER ROAD IMPROVEMENT SECTIONS & DETAILS AND TRAFFIC CONTROL PLAN.





By the Developer:
 Signature of Developer: *William Gran* 9/21/05
 Printed Name of Developer: William Gran
 By the Engineer:
 Signature of Engineer: *Acas M. Williams* 9/27/05
 Printed Name of Engineer: Acas M. Williams
 These Plans Have Been Reviewed For The Howard Soil Conservation District And Meet The Technical Requirements For Small Pond Construction, Soil Erosion And Sediment Control.
 Signature: *Jin Ann Ho* 11/22/05
 Printed Name: Jin Ann Ho
 Approved: Department of Public Works
 Signature: *William R. Mahan* 12-1-05
 Printed Name: William R. Mahan
 Approved: Department of Planning And Zoning
 Signature: *Charles Stewart* 12/7/05
 Printed Name: Charles Stewart
 Signature: *Michael Williams* 12/10/05
 Printed Name: Michael Williams
 AS-BUILT CERTIFICATION
 I Herby Certify That The Facility Shown On This Plan Was Constructed As Shown On The As-Built Plans And Meets The Approved Plans And Specifications.
 Signature: *Acas M. Williams* 12/04
 Printed Name: Acas M. Williams
 Certify Means To State Or Declare A Professional Opinion Based Upon Onsite Inspections And Material Tests Which Are Conducted During Construction. The Onsite Inspections And Material Tests Are Those Inspections And Tests Deemed Sufficient And Appropriate Commonly Accepted Engineering Standards. Certify Does Not Mean Or Imply A Guarantee By The Engineer Nor Does An Engineer's Certification Release Any Other Party From Meeting Requirements Imposed By Contract, Employment, Or Other Means, Including Meeting Commonly Accepted Industry Practices.



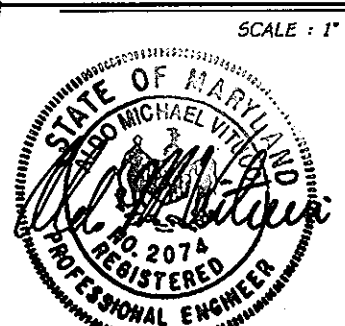
FISHER, COLLINS & CARTER, INC.
 CIVIL, ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21036
 (410) 461-2255

No.	Revisions	Date
1	Revised storm drain from 1-6 to the 8-7-11\"/>	7-19-06
2	Revised storm drain from 1-6 to the 8-7-11\"/>	11/24/06

OWNERS
 J. DAVID MULLINX
 ELIZABETH C. MULLINX
 1384 TOLLY QUARTER ROAD
 DAYTON, MARYLAND, 21036

PATRICIA LEE SCHWARZ
 1384 TOLLY QUARTER ROAD
 ELICOTT CITY, MARYLAND, 21042-1247

DEVELOPER
 J. THOMAS SCRIVENOR, INC.
 8808 CENTRE PARK DRIVE
 SUITE 209
 COLUMBIA, MARYLAND, 21145



STORMWATER MANAGEMENT PROFILES & DETAILS
BUCKSKIN OAKS
 LOTS 1 THRU 4, OPEN SPACE LOT 5,
 BUILDABLE PRESERVATION PARCEL 'A' AND
 NON-BUILDABLE PRESERVATION PARCELS 'B' & 'C'
 (A RESUBDIVISION OF LOT 5 - J. DAVID MULLINX PROPERTY, PLAT NO. 1)
 ZONED: RR-DCO
 TAX MAP NO. 22 GRID NO. 16 PART OF PARCEL NO. 73
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 DATE: JUNE 20, 2005
 SHEET 11 OF 13

AS BUILT