

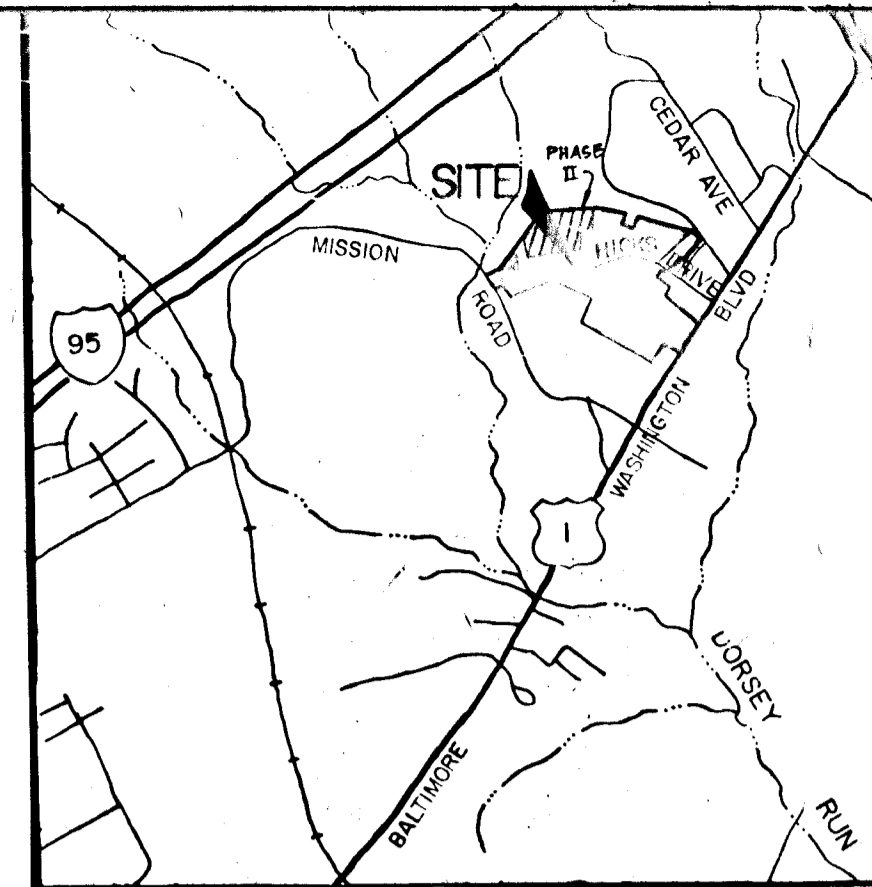
INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	SUMMIT HILL WAY, ROAD SECTIONS & DETAILS
3	WADES WAY STA. 2+00 TO 1+50.65
4	STORM DRAIN PROFILES & DETAILS
5	DRAINAGE AREA MAP
6	GRADING & SEDIMENT CONTROL PLAN
7	SEDIMENT CONTROL NOTES & DETAILS

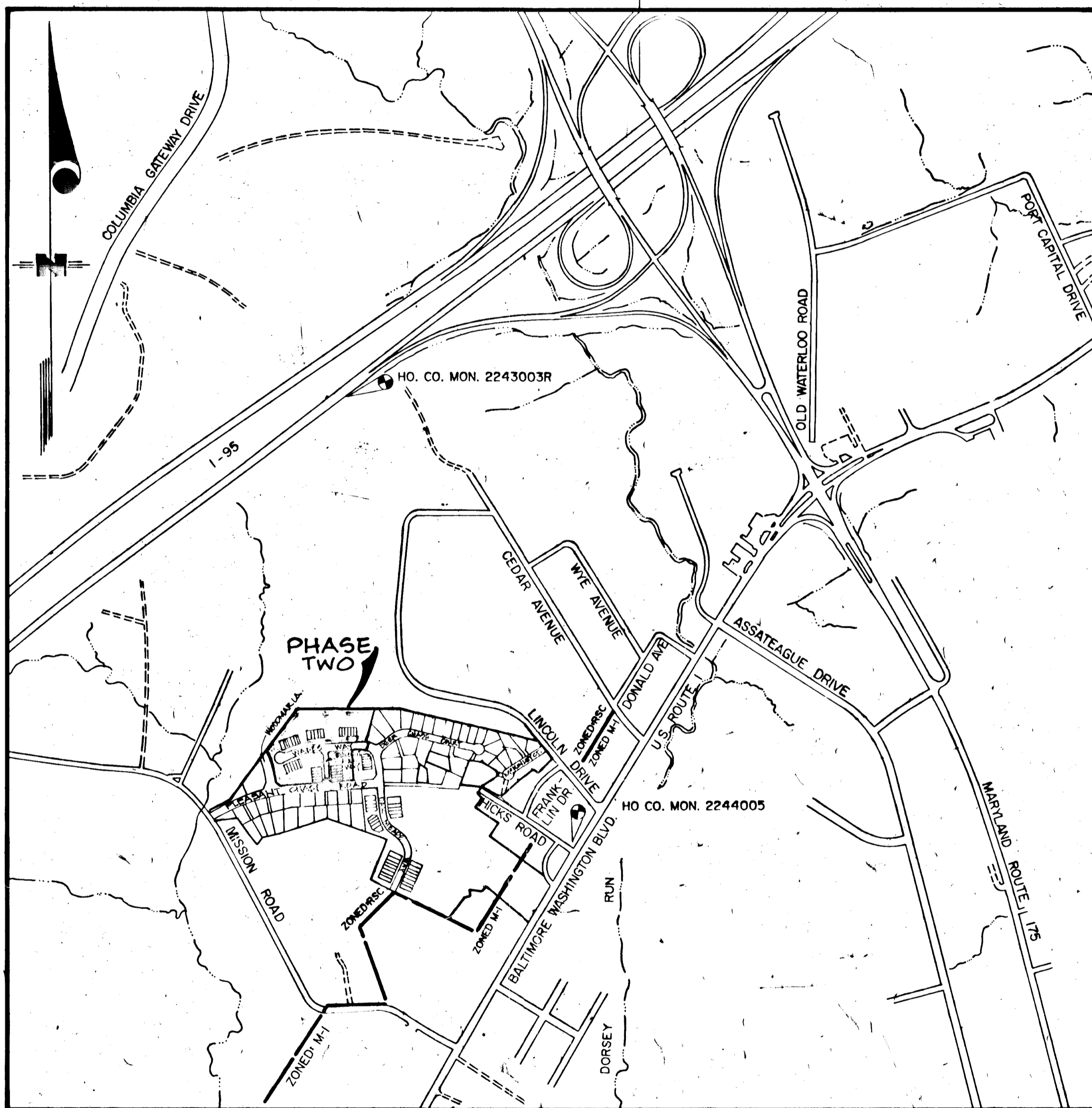
ROAD CONSTRUCTION PLANS

PLEASANT CHASE

SECTION ONE
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PHASE TWO



HOWARD COUNTY STREET MAP
PAGE 20 GRID 2, G-2
VICINITY MAP
SCALE: 1" = 2000'



LOCATION MAP
SCALE: 1" = 600'

PHASE II
GENERAL NOTES

- All construction shall be in accordance with the latest Standards and Specifications of Howard County.
- The contractor shall notify the Department of Public Works/Bureau of Construction Inspections at (410) 792-7272 at least five (5) working days prior to start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- Number of proposed lots: 28 Single Family, 87 Townhouses.
- Traffic Control Devices, markings and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All streets and regulatory signs shall be in place prior to the placement of any asphalt.
- Field Run Topography at 2 intervals, prepared by Land Services Group, Inc., dated April, 1992.
- Howard County Horizontal and Vertical control monuments No. 2233003 and No. 2244005.
- Light poles and fixtures for street lights shall be in accordance with the latest Howard County Design Manual, Volume III, Roads and Bridges.
- Water and Sewer is to be public, reference contract No. 24-3201, 3202 and 3203. Drainage is Patuxent.
- Stormwater Management Facilities consist of: Extended Detention Pond and Stone Trenches.
- Floodplain Study performed by Land Services Group, Inc., dated May, 1992.
- Wetlands Study performed by Land Services Group, Inc., dated April, 1992.
- Traffic Study performed by O.R. George & Associated, Inc., dated May, 1992.
- Noise Study performed by Land Services Group, Inc., dated October 30, 1992.
- Geotechnical Report performed by Geotechnical Services, Inc., dated April, 1992.
- Approximate location of existing utilities are shown for the contractor's information; contractor shall locate existing utilities well in advance of construction activities and take all necessary precautions to protect the existing utilities and maintain uninterrupted services.
- The plan subject to WP-91-55 section 18.120, to waive preliminary plan submission, section 18.113(C)(10) to waive length of cul-de-sac, (Approved July, 1991) and Section 18.115(B)(5) to allow a private road to exceed 200', (Approved February, 1992). WP 92-185 Section 18.115(B)(5) private road in excess of 200' for Wades Way, Oakmeade Way and Summit Hill Way and Section 18.113(C)(3) to allow a dead end street subject to all private road being dedicated in the near future, (Approved May, 1992). WP-83-03 section 18.118(C)(6) grading within 25' wetlands buffer, and section 18.118(F)(1) grading for SW facility within the 20' landscape buffer along the project boundary and public road rights of way. (Approved July, 1992).

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 4 HOUR DEPARTMENT OF THE ENVIRONMENT TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL NOTIFY 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: *Summit Hill* DATE: 3-14-94
NAME: KARENTH TILES, 11744 PRESIDENT, PHONE NO. (301) 367-4000
FIRM: NEW PANORAMA DEVELOPMENT CORPORATION
COMPLETE ADDRESS: 13229 BALTIMORE AVE LAUREL, MD. 20707

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD CO. SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

SIGNATURE: *James M. Allen* DATE: 3/14/94
NAME: JAMES M. ALLEN, P.E., REG. NO. 18043
FIRM: ENGINEERING DIVISION
COMPLETE ADDRESS: 20722

THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD CO. SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

SIGNATURE: *Patricia E. Gaylor* DATE: 3-28-94
NAME: PATRICIA E. GAYLOR, P.E.
FIRM: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

THIS PLAN FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEETS THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT.

SIGNATURE: *W. J. Schum* DATE: 3/28/94
NAME: W. J. SCHUM, P.E.
FIRM: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

SIGNATURE: *Cirna Sturmann* DATE: 4/13/94
NAME: CIRNA STURMANN, CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

SIGNATURE: *R. A. [unclear]* DATE: 4/1/94
NAME: R. A. [unclear], CHIEF, BUREAU OF HIGHWAYS

SIGNATURE: *Paul D. Spon* DATE: 4/8/94
NAME: PAUL D. SPON, CHIEF, BUREAU OF HIGHWAYS

A5-BUILT PLAN 9-21-98

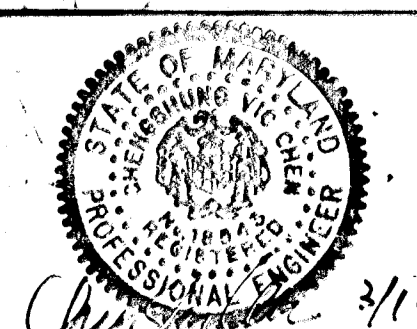
THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 7 OF 7

PHASE TWO
TITLE SHEET
PLEASANT CHASE
SECTION ONE
TAX MAP 43 PARCEL 21,620, #23,634
RESUBDIVISION OF "ONE SPOT HEIGHTS"
PLAT BOOK 3 FOLIO 36
LOTS 7,8,9,10,11,12,14
RESUBDIVISION OF "VILLA HEIGHTS"
PLAT BOOK 3 FOLIO 45
BLOCK 'A' (LOTS 4,5,6,7)
BLOCK 'D' (LOTS 7,8,9)
BLOCK 'E' (LOTS 1-3)
BLOCK 'F' (LOTS 1-2)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN DATE 10-12-90
REF: 91-01, WP 91-55, PP 212, WP 92-185, WP 92-186

4653

LAND SERVICES GROUP, INC.
ENGINEERS • PLANNERS • SURVEYORS
9801 Broken Land Parkway Suite 105
Columbia, Maryland 21046
Wash., (301) 621-8006
Balt. (301) 995-6010
Fax (301) 995-6021

TITLE SHEET



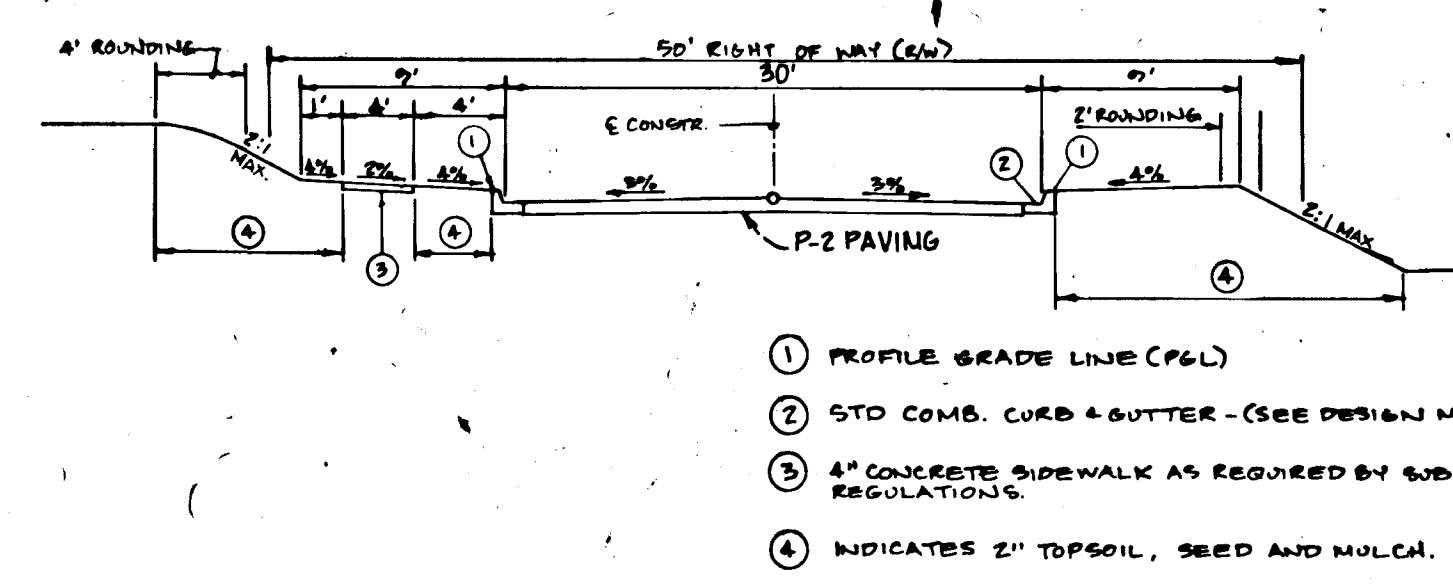
CONTRACT PURCHASER / DEVELOPER
NEW PANORAMA DEVELOPMENT CORPORATION
13299 BALTIMORE AVENUE
LAUREL, MARYLAND 20707
(301) 369-4000

HOWARD COUNTY CONTROL MONUMENTS
HOWARD COUNTY MONUMENT NO. 2243003 F.E.V. 301.416
FLUSH 2.5' EAST OF EAST EDGE MACADAM OF NORTH BOUND LANE
N 487448.365 E 856755.255
HOWARD COUNTY MONUMENT NO. 2244005 F.E.V. 297.572
2' BELOW SURFACE 10.8' WEST OF NAIL & CAP ON 1 DGI
MACADAM SOUTH BOUND LANE
N 485175.968 E 858942.538

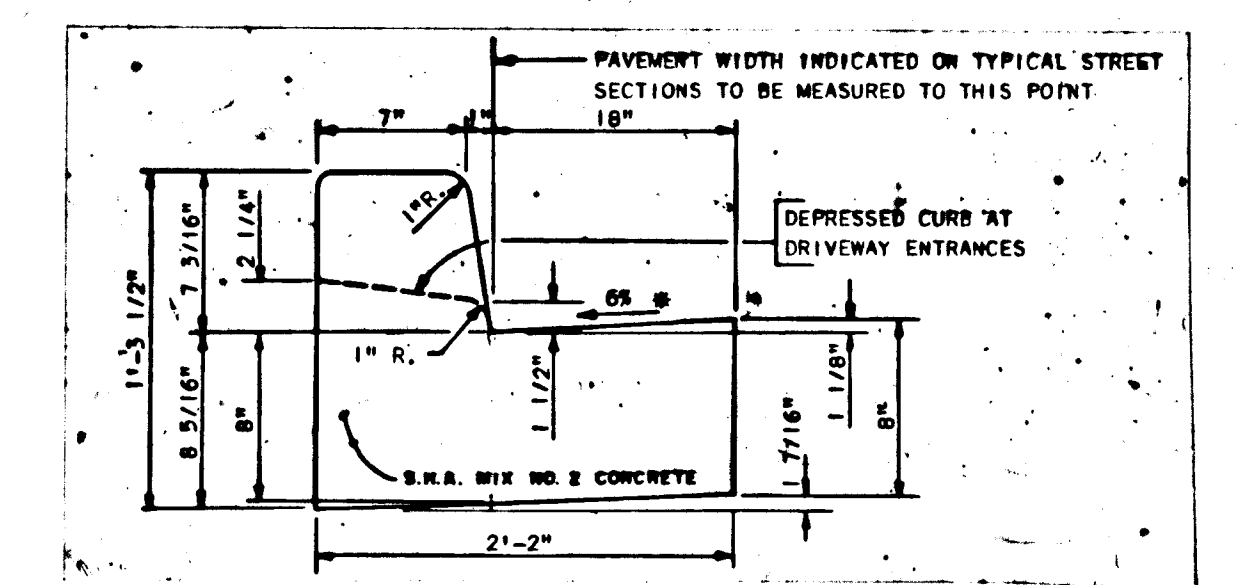
SURVEY I.S.G. 1041
DESIGN I.S.G.
DRAWN: K.A.J. 3/11/94
CHECKED: 1 of 7
SCALE AS SHOWN 1:1110

RESIDENTIAL ZONES	1 1/2" BIT. CONC. SURFACE	1 1/2" BIT. CONC. SURFACE
LOCAL CUL-DE-SAC STS. ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS	2 1/2" BIT. CONC. BASE	2 1/2" BIT. CONC. BASE
TRAVELWAYS	5" BIT. CONC. BASE	PRIME
APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	8" CRUSHER RUN BASE COURSE	(2 COURSES) OR 6" DENSE GRADED STABILIZED AGGREGATE BASE COURSE

P-2 PAVING SECTION
NOT TO SCALE



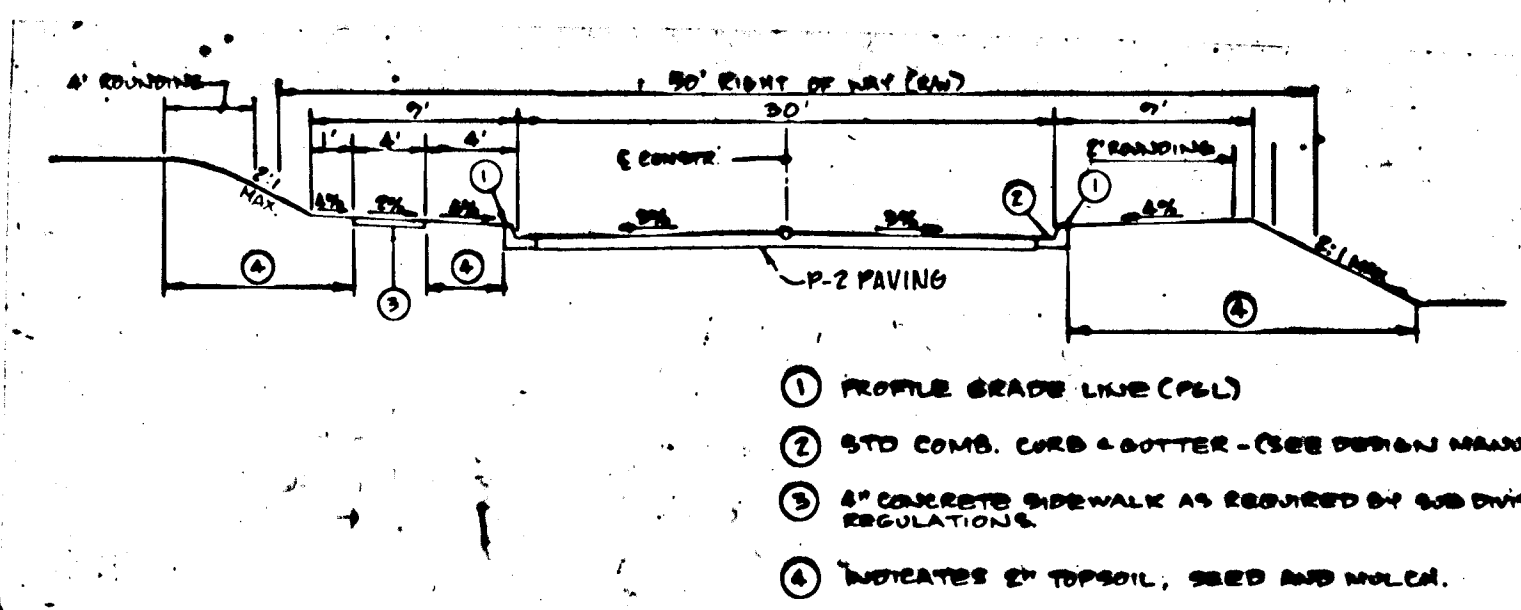
TYPICAL SECTION
CUL-DE-SAC ROAD
N.T.S.



STANDARD 7" COMBINATION CURB & GUTTER
NOT TO SCALE

STREET LIGHT TABLE

NO.	ROAD	± STA	± OFFSET	TYPE	POLE / FIXTURE
6	WADES WAY	5+70	10' L	FIBERGLASS	EMBEDDED POLE 100 W/HPB



TYPICAL SECTION
LOCAL ROAD

SUMMIT HILL WAY STA. 0+00 TO 3+07.14
WADES WAY STA. 3+00 TO 3+88

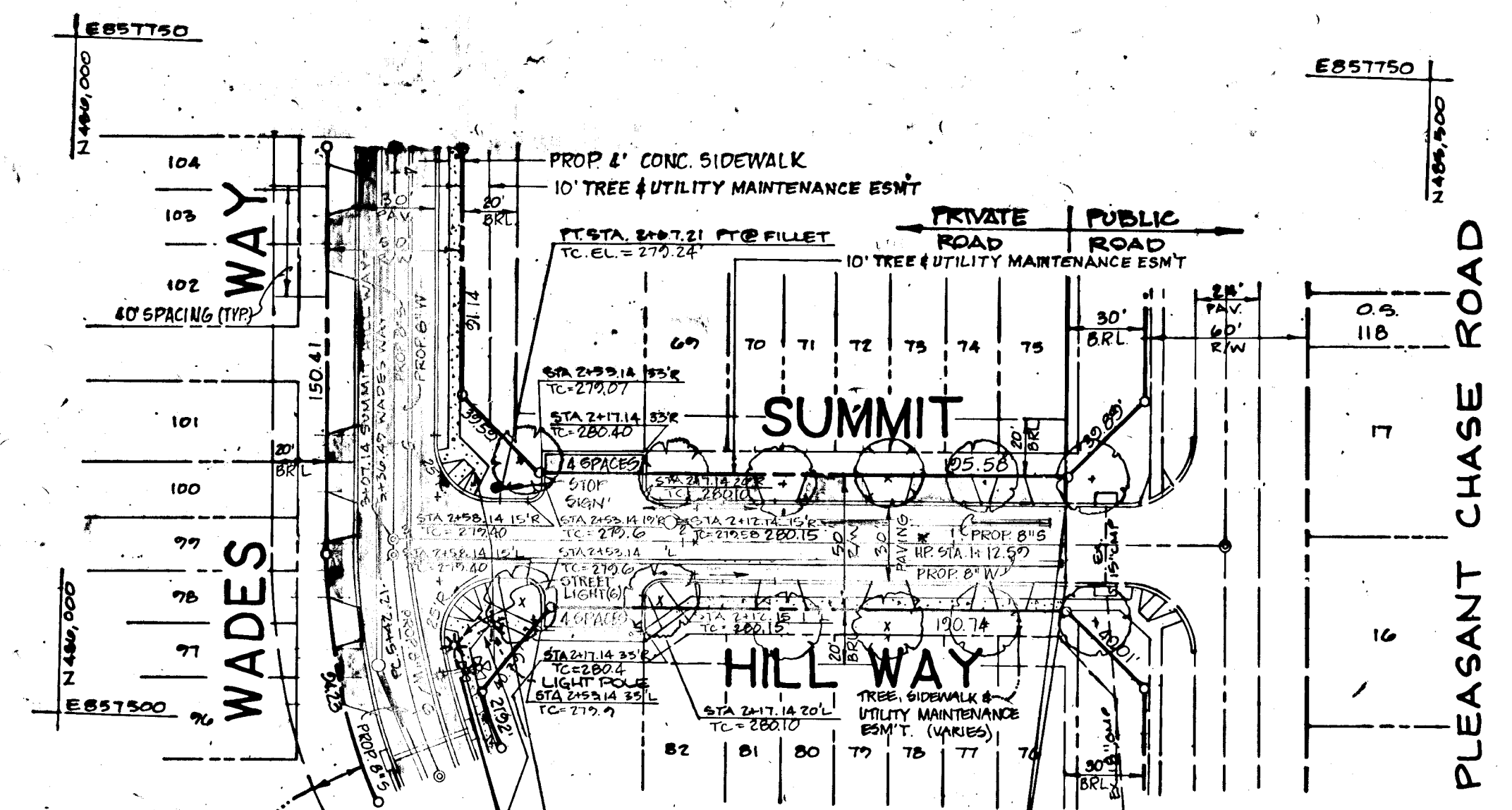
- LEGEND**
- Ho. Co. PAVING SECTION
 - STREET TREES
 - STREET LIGHT
 - STOP SIGN

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Uma Siammy
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
DATE: 4/13/94

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
U.A.
CHIEF, BUREAU OF HIGHWAYS
DATE: 4/14/94

Paul D. Jenson
CHIEF, BUREAU OF ENGINEERING
DATE: 4/8/94

AS-BUILT PLAN 9-21-98
R.F. 501-04, WP 91-55, PD 210, WP 92-105, WP 93-03
PHASE TWO
ROAD CONSTRUCTION PLAN
GRADE ESTABLISHMENT PLAN
PLEASANT CHASE
SECTION ONE
TAX MAP 43 PARCEL 211,620,623,634
RESUBDIVISION OF "ONE SPOT HEIGHTS"
PLAT BOOK 3 FOLIO 36 LOTS 7,8,9,10,11,12,14
RESUBDIVISION OF "VILLA HEIGHTS"
PLAT BOOK 3 FOLIO 45
BLOCK 'A' (LOTS 4,5,6,7) BLOCK 'D' (LOTS 7,8,9)
BLOCK 'E' (LOTS 1-8) BLOCK 'F' (LOTS 1-4)
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: 1-92



PLAN VIEW
SCALE: 1"=50'

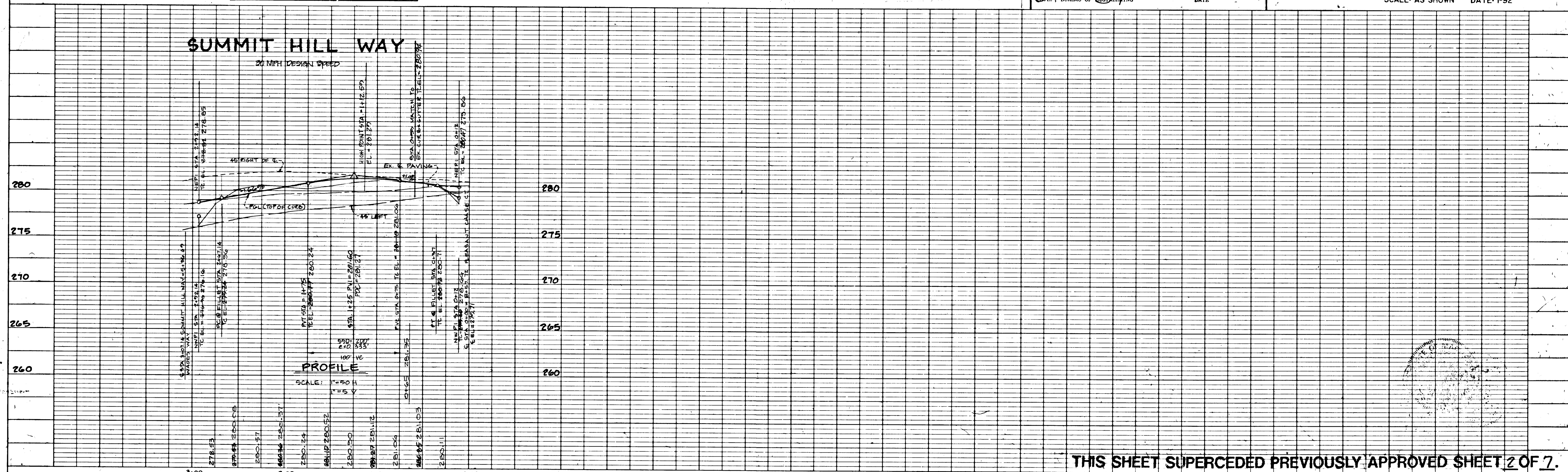
LANDSCAPE LEGEND

NO.	TYPE	SIZE	REMARKS
12	ACER FRUITFUL / RED MAPLE	2 1/2" MIN CALIBER	DBB

NOTE: See PLANTING DETAIL SHT. 4 OF 7
* RECOMMENDED VARIETY: OCTOBER GLORY

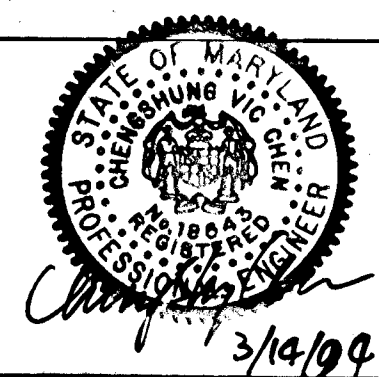
- NOTES:**
- FOR STORM DRAIN PROFILES SEE SHEET 4 OF 7
 - FOR LANDSCAPE LEGEND SEE THIS SHEET
 - CONTRACTOR TO LOCATE EXISTING UTILITIES TO HIS OWN SATISFACTION PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN
 - FOR TREE PLANTING DETAIL SEE SHEET 4 OF 7
 - FOR PLAN AND PROFILE OF WADES WAY SEE SHEET 3 OF 7
 - THE PROPOSED STREET LIGHTING FOR INTERSECTION OF SUMMIT HILL WAY & WADES WAY SHALL BE 150-WATT TRADITIONAL SODIUM VAPOR LAMP, TOP FIXTURES ON A 14 FOOT BLACK FIBERGLASS POLE
 - NO STREET TREE SHALL BE PLANTED CLOSER THAN 2' TO ANY STREET LIGHT.

The standard street light for roadways with closed sections shall be a 100 watt high pressure sodium vapor. Traditional post top fixture mounted on a 14 foot black fiberglass embedded pole.



THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 2 OF 7.

1653



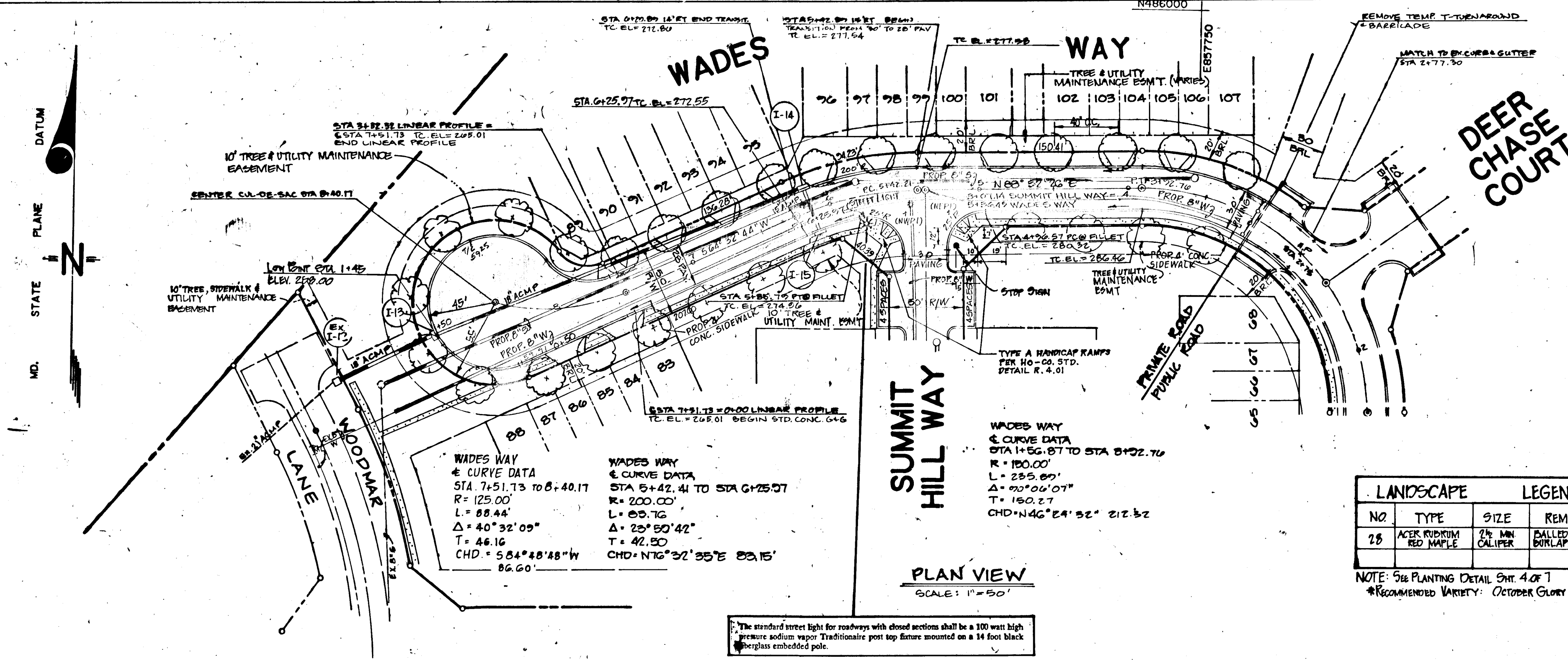
DES: M.W.E.	
DRN: M.W.E.	
CHK: R.W.G.	
DATE: 4/02	9/23
VC: 100' ST. GRADE	
BY: NO	REVISION

CONTRACT PURCHASER / DEVELOPER
NEW PANORAMA DEVELOPMENT CORPORATION
13299 BALTIMORE AVENUE
LAUREL, MARYLAND 20707
(301) 369-4000



9801 Broken Land Parkway
Suite 105
Columbia, Maryland 21046
Wash. (301) 621-8006
Bal. (301) 995-6010
Fax (301) 995-6021

SCALE AS SHOWN
SHEET 2 OF 7



- NOTES:**
1. FOR STORM DRAIN PROFILES SEE SHEET 4 OF 7
 2. FOR LANDSCAPE LEGEND SEE THIS SHEET
 3. CONTRACTOR TO LOCATE EXISTING UTILITIES TO HIS OWN SATISFACTION PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN
 4. FOR TREE PLANTING DETAIL SEE SHEET 4 OF 7
 5. THE PROPOSED STREET LIGHTING FOR INTERSECTION OF SUMMIT HILL WAY & WADES WAY SHALL BE 150-WATT TRADITIONAL SODIUM VAPOR LAMP TOP FIXTURES ON A 14 FOOT BLACK FIBERGLASS POLE.
 6. NO STREET TREE SHALL BE PLANTED CLOSER THAN 20' TO ANY STREET LIGHT.

AS-BUILT PLAN 9-21-98
 PHASE TWO

**ROAD CONSTRUCTION PLAN
 GRADE ESTABLISHMENT PLAN
 WADES WAY
 STA. 3+00 TO STA. 8+38.15
 PLEASANT CHASE**

LANDSCAPE		LEGEND	
NO	TYPE	SIZE	REMARKS
25	ACER RUBIDUM RED MAPLE	2 1/2" MIN CALIPER	BALLED & BURLAPED

NOTE: SEE PLANTING DETAIL SHEET 4 OF 7
 *RECOMMENDED VARIETY: OCTOBER GLORY

SECTION ONE
 TAX MAP 43 PARCEL 211,620,623,634
 RESUBDIVISION OF "ONE SPOT HEIGHTS"
 PLAT BOOK 3 FOLIO 36 LOTS 7,8,9,10,11,12,14
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 BLOCK 'E' (LOTS 1-8) BLOCK 'F' (LOTS 1-4)
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN DATE 1-92
 REF: 92-04, W/91-55, PD 172, WF 92-185, W/93-03

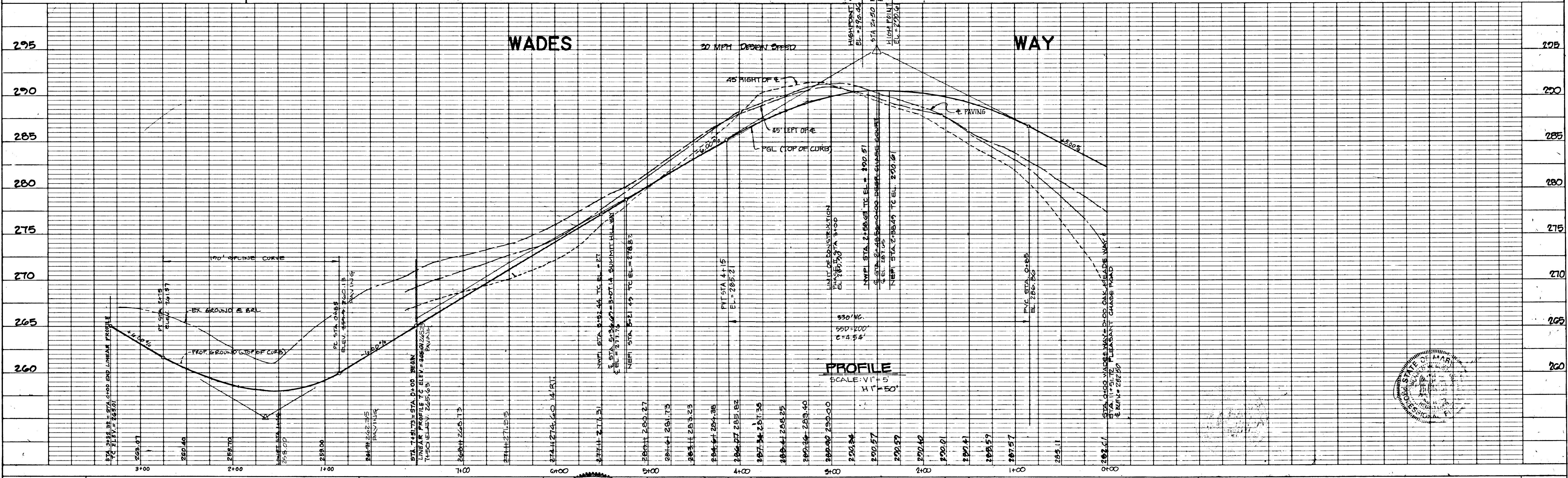
APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING.
Quina Drummond 4/13/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
STA 4/17/94
 CHIEF, LAND DEVELOPMENT DIVISION DATE

CHIEF, BUREAU OF SURVEYORS
John W. Egan 4/18/94
 CHIEF, BUREAU OF ENGINEERING DATE

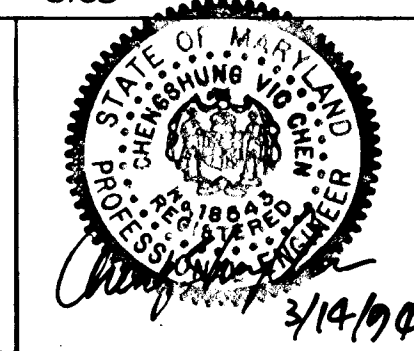
- LEGEND**
- 1/4" CO. PAVING SECTION
 - STREET TREES
 - STREET LIGHT
 - STOP SIGN

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 3 OF 7.



2653

GEP 007



DES: M.W.E.	
DRN: M.W.E.	
CHK: R.W.G.	
DATE: 1-92	
BY: NO	REVISION
	DATE

CONTRACT PURCHASER / DEVELOPER
 NEW PANORAMA DEVELOPMENT CORPORATION
 13299 BALTIMORE AVENUE
 LAUREL, MARYLAND 20707
 (301) 369-4000



9801 Broken Land Parkway
 Suite 105
 Columbia, Maryland 21046
 Wash. (301) 621-8006
 Balt. (301) 995-6010
 Fax (301) 995-6021

SCALE AS SHOWN
 SHEET 3 OF 7

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A VERTICALLY OR AT AN ANGLE AT A 90 DEGREE ANGLE TO THE EROSION CONTROL TRAINS. I WILL PROVIDE THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING WITH A COPY OF THIS PLAN AND EROSION CONTROL PLAN WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING."

SIGNATURE: *[Signature]* DATE: 3-14-94
 NAME: KENNETH J. ... PRESIDENT PHONE NO: (301) 369-4000
 FIRM: NEW PANORAMA DEVELOPMENT CORPORATION
 COMPLETE ADDRESS: 13299 BALTIMORE AVE. LAUREL, MD. 20707

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING WITH A COPY OF THIS PLAN WITHIN 30 DAYS OF COMPLETION."

[Signature] DATE: 3/14/94
 REGISTERED PROFESSIONAL ENGINEER NO. 18543
 STATE OF MARYLAND
 UPPER MERIDIAN, MD. 20722

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL.

[Signature] DATE: 3/28/94
 DISTRICT SOIL CONSERVATION DISTRICT

THESE PLANS FOR SMALL POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

[Signature] DATE: 3/28/94
 DISTRICT SOIL CONSERVATION DISTRICT

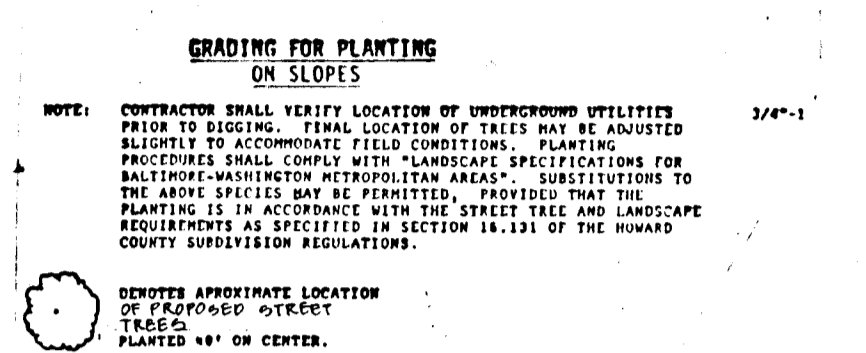
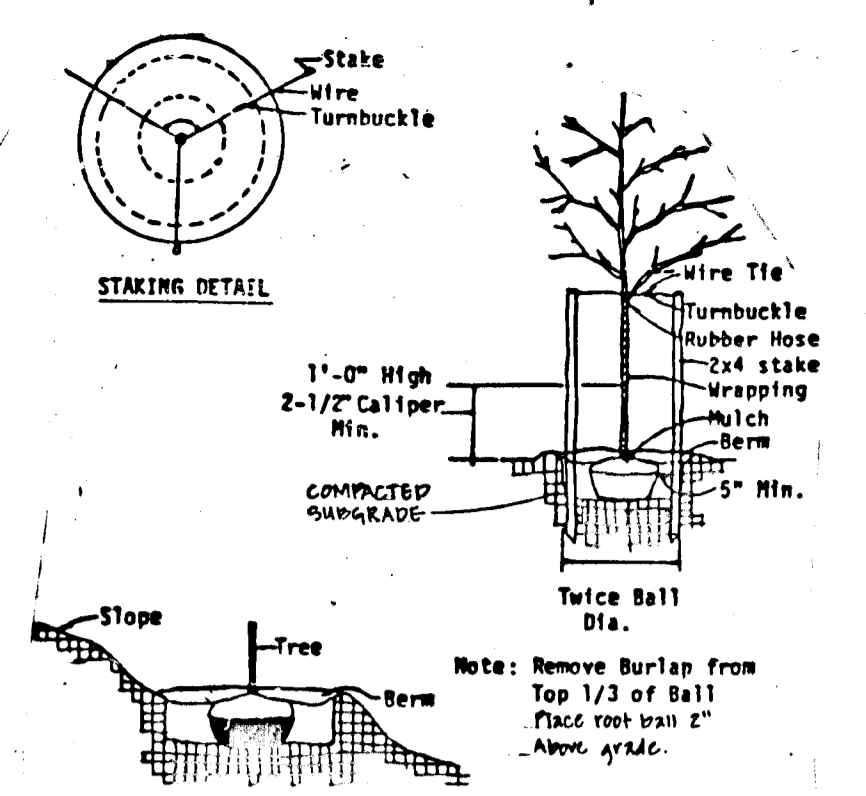
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] DATE: 4/16/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

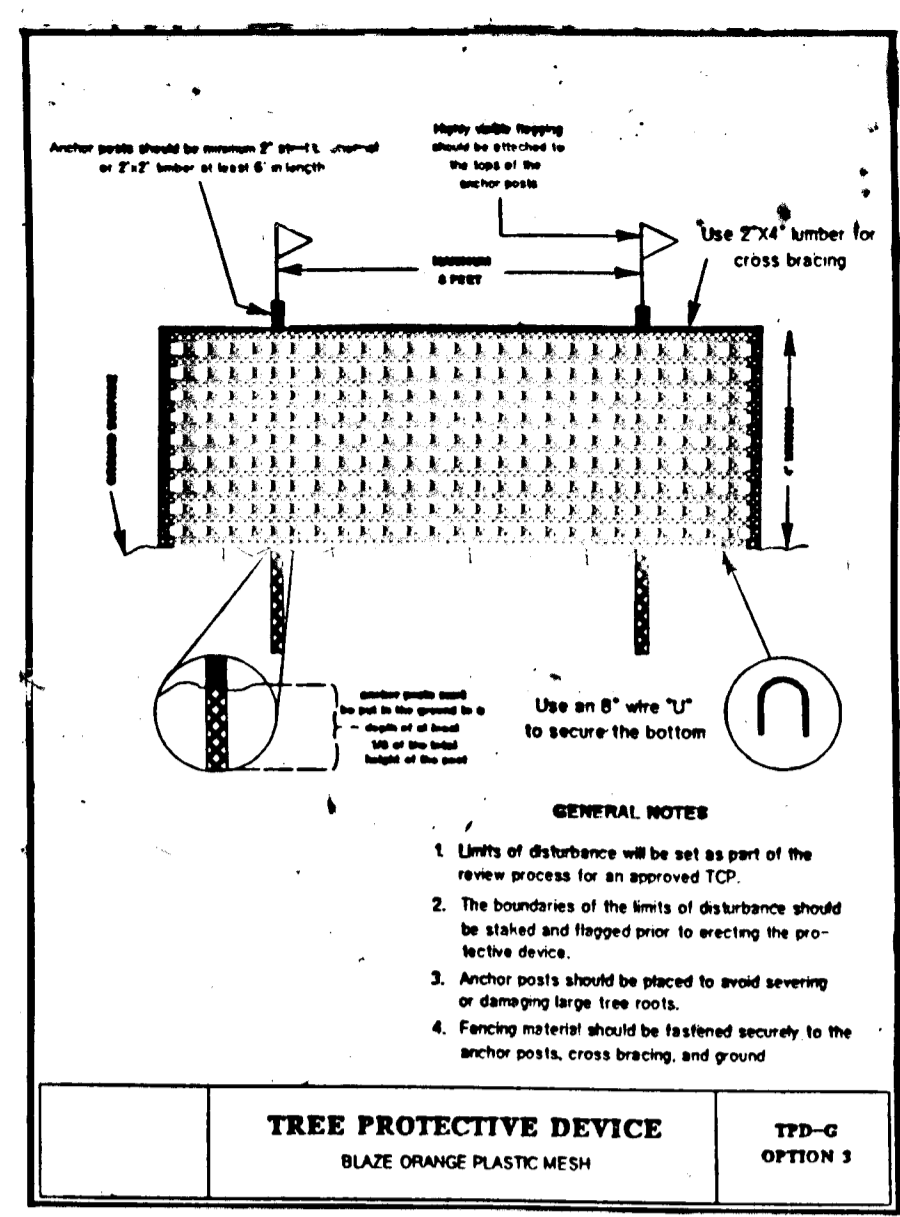
APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

[Signature] DATE: 4/16/94
 CHIEF, BUREAU OF HIGHWAYS

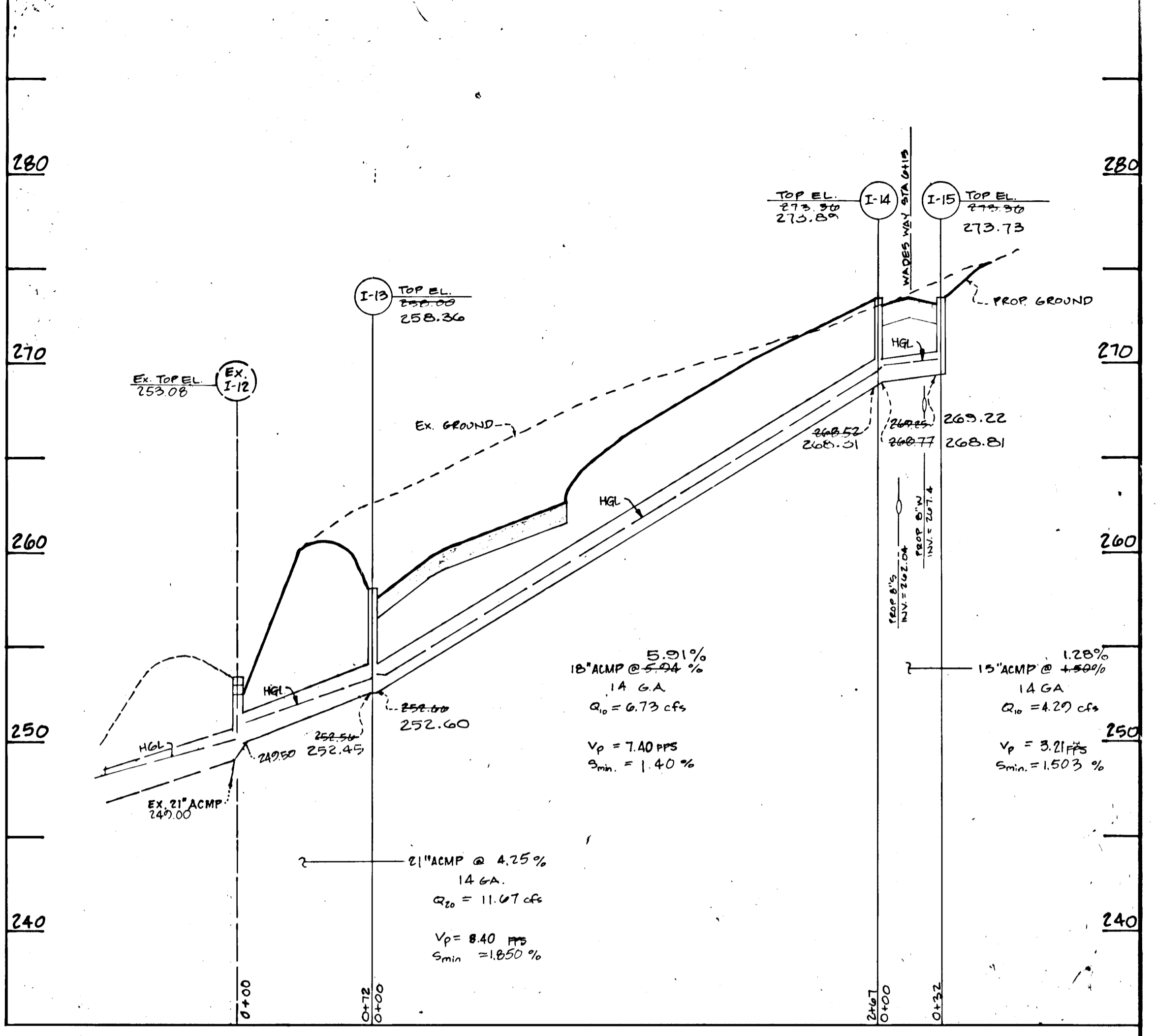
[Signature] DATE: 4/8/94
 CHIEF, BUREAU OF PUBLIC WORKS



CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATION OF THIS MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS. SUBSTITUTIONS TO THE ABOVE SPECIES MAY BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 18.121 OF THE HOWARD COUNTY SUPERVISOR REGULATIONS.



- STANDARD TREE PROTECTION NOTES
- All trees shown on this plan to be retained shall be protected during construction with the tree protection device as indicated on plan.
 - Tree protection devices shall be erected according to Prince George's County Park and Planning, Natural Resources Division Standards for Tree Protection.
 - Tree protection devices shall be installed prior to the commencement of any site preparation work (clearing, grubbing or grading).
 - Tree protection devices shall completely surround the tree or clusters of trees; will be located at the outermost limits of the tree branches (drip-line) and will be maintained throughout the construction project in order to prevent the following:
 - soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials;
 - root zone disturbances due to grade changes (greater than 4 inches cut or fill) or trenching not reviewed and authorized by Natural Resources Division;
 - wounds to exposed roots, trunk or limbs by mechanical equipment;
 - other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires.
 - Exceptions to installing tree protection devices at tree drip-lines may be permitted in the following cases:
 - where permeable paving is to be installed, erect the fence at the outer limits of the permeable paving area;
 - where trees are close to proposed buildings, erect the fence no closer than 4 feet to the building;
 - where there are severe space constraints due to tract size, or other special requirements.
 - Where any of the above exceptions result in a tree protection device being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planting to a height of 4 feet (or to the limits of lower branching) in addition to the tree protection device provided.
 - Where any of the above exceptions result in areas of unprotected root zones (under drip-lines), those areas should be covered with 4 inches of organic mulch to minimize soil compaction.
 - All grading within protected root zone areas shall be done by hand or with small equipment to minimize root damage. Prior to grading, relocate the tree protection device to 2 feet behind the grade change area.
 - Any roots exposed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
 - Prior to excavation or grade cutting within tree drip-lines, make a clean cut between the disturbed and undisturbed root zones with a rock saw or similar equipment to minimize damage to remaining roots.
 - Trees most heavily impacted by construction activities should be watered deeply once a week during periods of hot, dry weather. Vase grooves should be sprayed with water periodically to reduce dust accumulation on the leaves.
 - Any trenching required for the installation of landscape irrigation shall be placed as far from existing tree trunks as possible.
 - No landscape topsoil dressing greater than 4 inches shall be permitted on the root flares of any tree.
 - Pruning to provide clearance for structures, vehicular traffic and equipment shall take place before construction begins.
 - All finished pruning must be done according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees).



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

STRUCTURE SCHEDULE

No.	TYPE	TOP EL.	INV. IN	INV. OUT	DETAIL	LOCATION
I-13	A-5 DEPRESSED	258.0	252.66	252.96	SD 4.01	COL-DE-SAC WADES WAY
I-14	A-5 W/DEFLEC.	273.36	268.77	268.52	SD 4.01	STA 613 16' R WADES WAY
I-15	A-10 W/DEFLEC.	273.50	---	267.25	SD 4.02	STA 613 16' L WADES WAY

PIPE SUMMARY

SIZE	TYPE	LENGTH
15"	14 GAUGE	32'
18"	14 GAUGE	267'
21"	14 GAUGE	72'

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 4 OF 7.

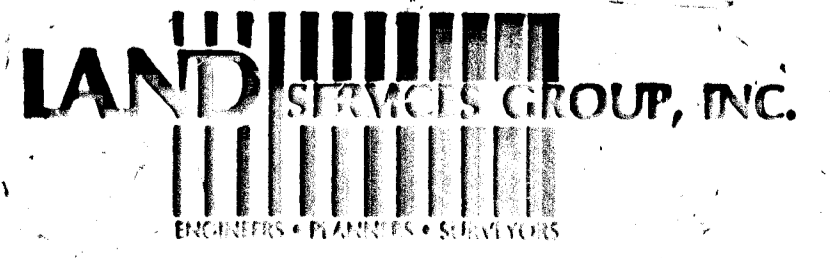
AS-BUILT PLAN 9-21-93
 REF. 921-04, WP 91-55, PB 212, WP 92-185, WP 93-03
 PHASE TWO
 STORM DRAIN PROFILES
 ROAD SECTIONS & DETAILS

PLEASANT CHASE

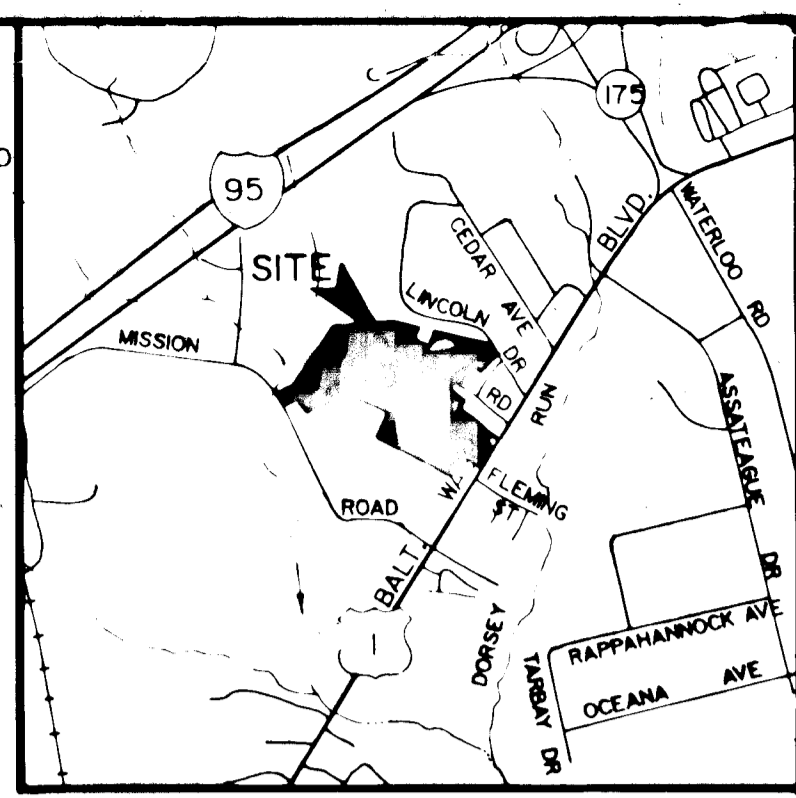
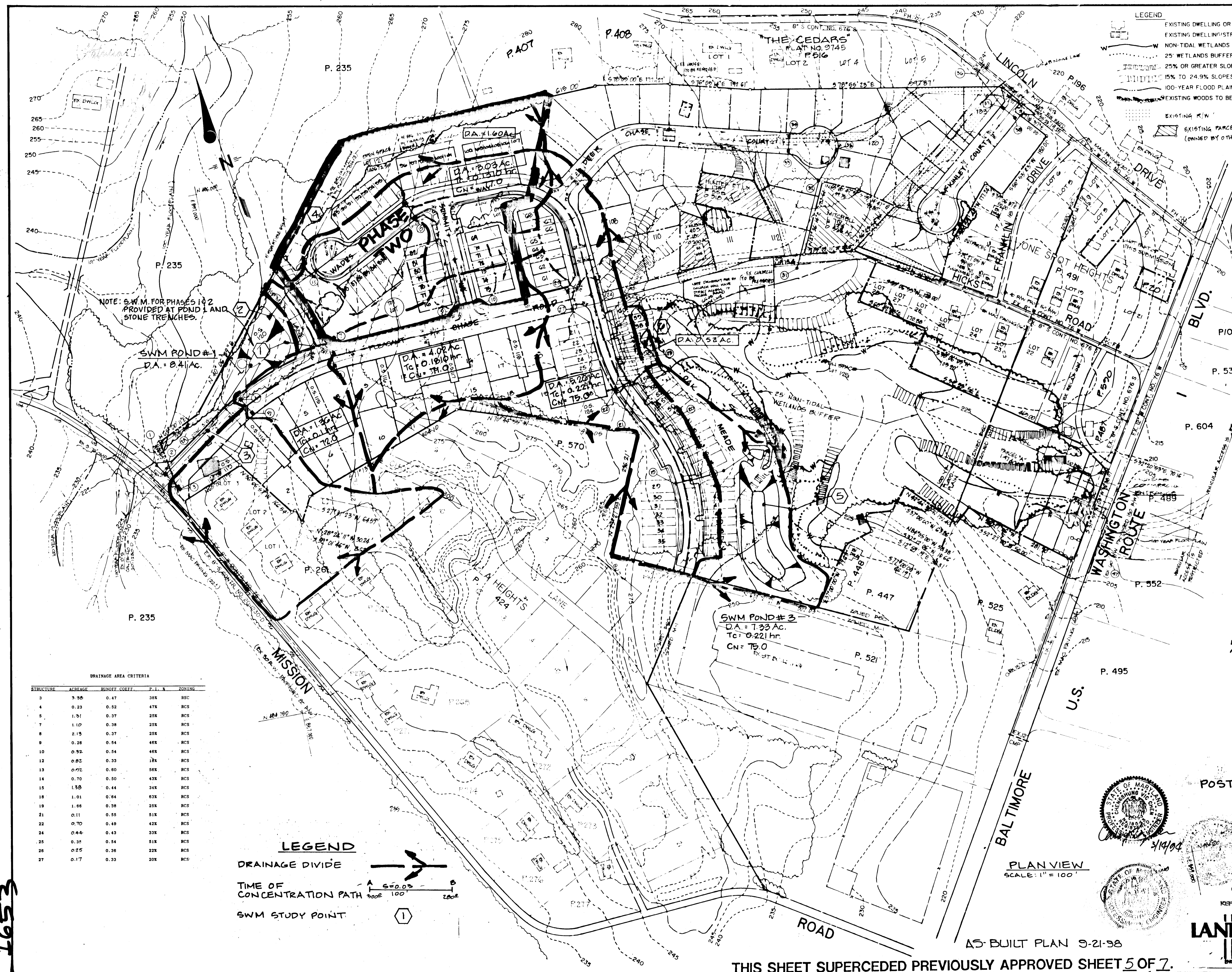
SECTION ONE
 TAX MAP 43 PARCEL 21,620,623,634
 RESUBDIVISION OF "ONE SPOT HEIGHTS"
 PLAT BOOK 3 FOLIO 36 LOTS 7,8,9,10,11,12,14
 RESUBDIVISION OF "VILLA HEIGHTS"
 PLAT BOOK 3 FOLIO 45
 BLOCK 'A' (LOTS 4,5,6,7) BLOCK 'D' (LOTS 7,8,9)
 BLOCK 'E' (LOTS 1-6) BLOCK 'F' (LOTS 1-4)
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: 1-92
 SHEET 4 OF 7



CONTRACT PURCHASER / DEVELOPER
 NEW PANORAMA DEVELOPMENT CORPORATION
 13299 BALTIMORE AVENUE
 LAUREL, MARYLAND 20707
 (301) 369-4000



1653



OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN 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 WILL 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."

DATE: 3-12-94
 SIGNATURE: *[Signature]*
 NAME: KENNETH VITCO, VICE PRESIDENT
 FIRM: NEW PANORAMA DEVELOPMENT CORPORATION
 COMPLETE ADDRESS: 192-09 BALTIMORE AVE. LAUREL, MD 20707

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD CO. SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

DATE: 3/19/94
 SIGNATURE: *[Signature]*
 REG. NO. 18543
 6714 RIVER DRIVE
 UPPER MARLBORO, MD. 20722

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD CO. SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

[Signature] 3/28/94
 U.S. SOIL CONSERVATION DISTRICT DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT.

[Signature] 3/28/94
 HOWARD CO. SOIL CONSERVATION DISTRICT DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING.

[Signature] 4/13/94
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND RESEARCH

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

[Signature] 4/14/94
 CHIEF, LAND DEVELOPMENT DIVISION DATE
 N/A

[Signature] 4/8/94
 CHIEF, BUREAU OF HIGHWAYS DATE
 CHIEF, BUREAU OF ENGINEERING DATE

DRAINAGE AREA CRITERIA

STRUCTURE	ACREAGE	RUNOFF COEFF.	P. I. &	ZONING
3	3.96	0.47	38%	RCS
4	0.23	0.52	47%	RCS
5	1.91	0.37	25%	RCS
7	1.10	0.38	25%	RCS
8	2.13	0.37	25%	RCS
9	0.28	0.54	46%	RCS
10	0.92	0.54	46%	RCS
12	0.82	0.33	18%	RCS
13	0.72	0.80	56%	RCS
14	0.70	0.50	43%	RCS
15	1.30	0.44	34%	RCS
18	1.01	0.84	63%	RCS
19	1.86	0.38	25%	RCS
21	0.11	0.55	51%	RCS
22	0.70	0.49	42%	RCS
24	0.44	0.43	33%	RCS
25	0.35	0.54	51%	RCS
26	0.25	0.36	22%	RCS
27	0.17	0.33	20%	RCS

1653

**PHASE TWO
DRAINAGE AREA MAP
SWM
POST-DEVELOPMENT DRAINAGE AREAS
FOR PHASES 1 THRU 3
PLEASANT CHASE**

SECTION ONE
 TAX MAP 43 PARCEL 21,620,623,634
 RESUBDIVISION OF "ONE SPOT HEIGHTS"
 PLAT BOOK 3 FOLIO 36 LOTS 7,8,9,10,11,12,14
 RESUBDIVISION OF "WILLA HEIGHTS"
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 BLOCK "E" (LOTS 1-6) BLOCK "F" (LOTS 1-4)
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN DATE: 1-92
 REF. SD-04, WF-01-55, PD-212, WF-02-185, WF-03-03

LAND SERVICES GROUP, INC.
 9801 Broken Land Parkway Suite 105
 Columbia, Maryland 21046
 Wash. (301) 621-8006
 Balt. (301) 995-6010
 Fax (301) 995-6021
 SHIT 507.7
 P. 92-146A

AS-BUILT PLAN 9-21-98

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 5 OF 7.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD CO. SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

John A. Goff 3/23/94
U.S. SOIL CONSERVATION DISTRICT DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT.

Robert W. Johnson 3/23/94
HOWARD CO. SOIL CONSERVATION DISTRICT DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING.

Uma Swamy 4/13/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH. DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CR/A 4/16/94
CHIEF, LAND DEVELOPMENT DIVISION DATE

Paul J. Sapa 4/8/94
CHIEF, BUREAU OF HIGHWAYS DATE

MO. STATE PLANE DATUM
N

OWNER'S/DEVELOPER'S CERTIFICATION

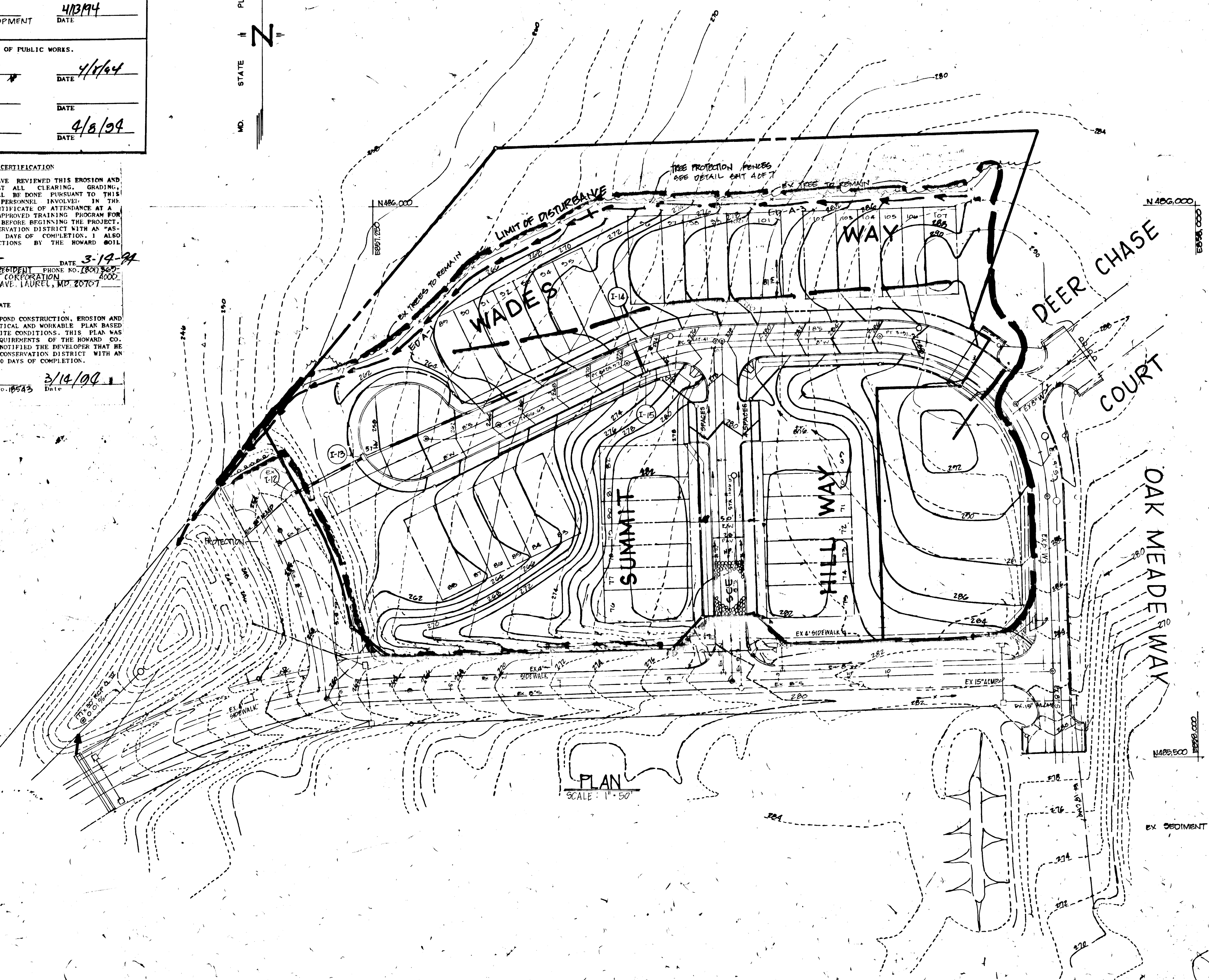
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James J. Goff DATE 3-14-94
NAME: JAMES J. GOFF TITLE: PRESIDENT PHONE NO. (301) 362-4000
FIRM: NEW PANORAMA DEVELOPMENT CORPORATION 4000
COMPLETE ADDRESS: 13295 BALTIMORE AVE. LAUREL, MD. 20707

ENGINEER'S CERTIFICATE

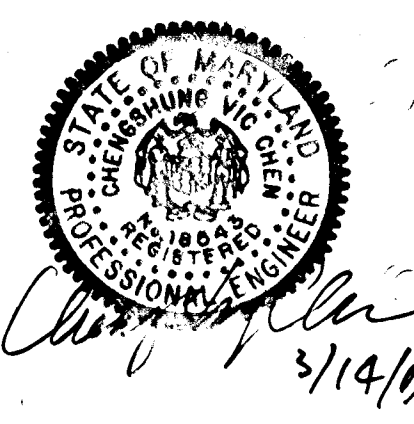
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Chengshan Lan 3/14/94
REGISTERED PROFESSIONAL ENGINEER Registration No. 16543 Date
1100 Upper Marlboro, Md. 20722



PLAN
SCALE: 1" = 50'

AS-BUILT PLAN 9-21-98



PHASE TWO
GRADING & SEDIMENT CONTROL PLAN
PLEASANT CHASE

SECTION ONE
TAX MAP 43 PARCEL 211,620,623,634
RESUBDIVISION OF "ONE SPOT HEIGHTS"
PLAT BOOK 3 FOLIO 36, LOTS 7, 8, 9, 10, 11, 12, 14
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6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: 1-92

SHEET 6 OF 7
REF: 921-04, WP 91-55, PD 272, WP 92-185, WP 93-05

CONTRACT PURCHASER / DEVELOPER
NEW PANORAMA DEVELOPMENT CORPORATION
13295 BALTIMORE AVENUE
LAUREL, MARYLAND 20707
(301) 369-4000

LAND SERVICES GROUP, INC.
ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway
Suite 105
Columbia, Maryland 21046
Wash. (301) 621-8006
Belt. (301) 995-6010
Fax (301) 995-6021

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 6 OF 7.

1653

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MEETING OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POINTS WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DATE: 3-14-94

NAME: *James J. ...* PHONE NO. (301) 360-1000

FIRM: NEW PANORAMA DEVELOPMENT CORPORATION, 1000 COMPLETE ADDRESS: 13299 BALTIMORE AVE. LAUREL, MD. 20707

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POUD CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD CO. SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POINTS WITHIN 30 DAYS OF COMPLETION.

DATE: 3/14/94

NAME: *Charles M. ...*

CERTIFICATION NO. 10543

OFFICE ADDRESS: 20722 Upper Marlboro, Md. 20722

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD CO. SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POUD CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

DATE: 3/28/94

NAME: *Patricia ...*

OFFICE ADDRESS: 20722 Upper Marlboro, Md. 20722

THESE PLANS FOR SMALL POUD CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT.

DATE: 3/28/94

NAME: *Robert W. ...*

OFFICE ADDRESS: 20722 Upper Marlboro, Md. 20722

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING.

DATE: 4/13/94

NAME: *Olga ...*

OFFICE ADDRESS: 20722 Upper Marlboro, Md. 20722

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DATE: 4/14/94

NAME: *...*

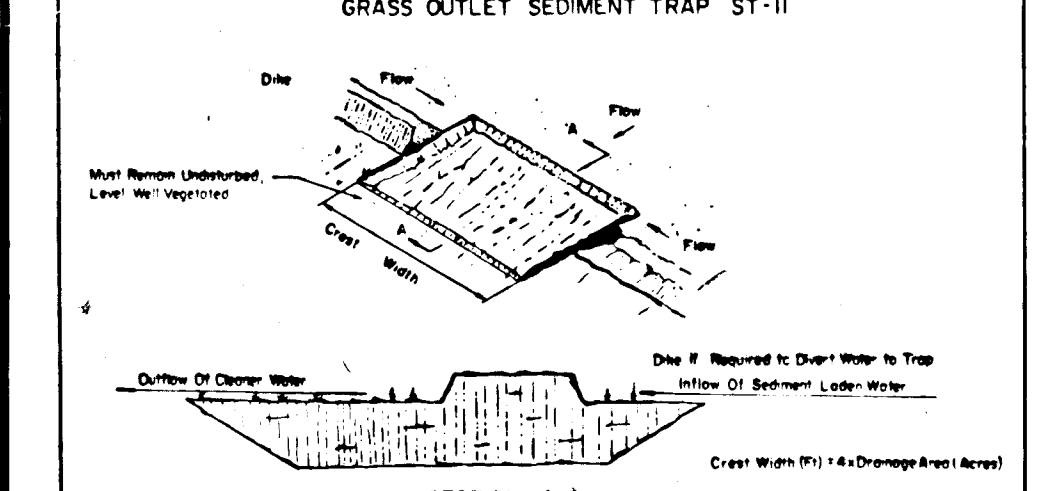
OFFICE ADDRESS: 20722 Upper Marlboro, Md. 20722

CHIEF, BUREAU OF HIGHWAYS

DATE: 4/8/94

NAME: *...*

OFFICE ADDRESS: 20722 Upper Marlboro, Md. 20722



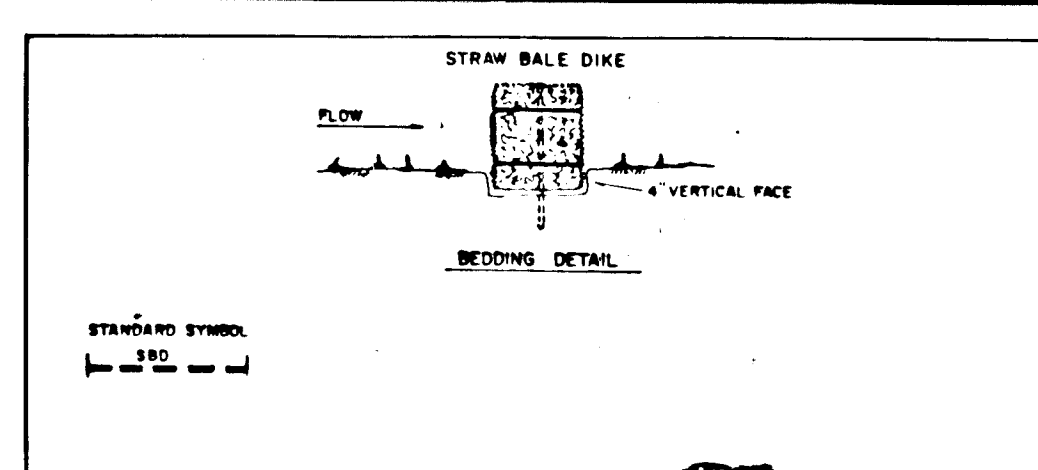
CONSTRUCTION SPECIFICATION FOR ST-II

- Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage area.
- Minimum crest width shall be 4 X Drainage Area.
- Sediment trap shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

GRASS OUTLET SEDIMENT TRAP STANDARD DRAWING ST-II

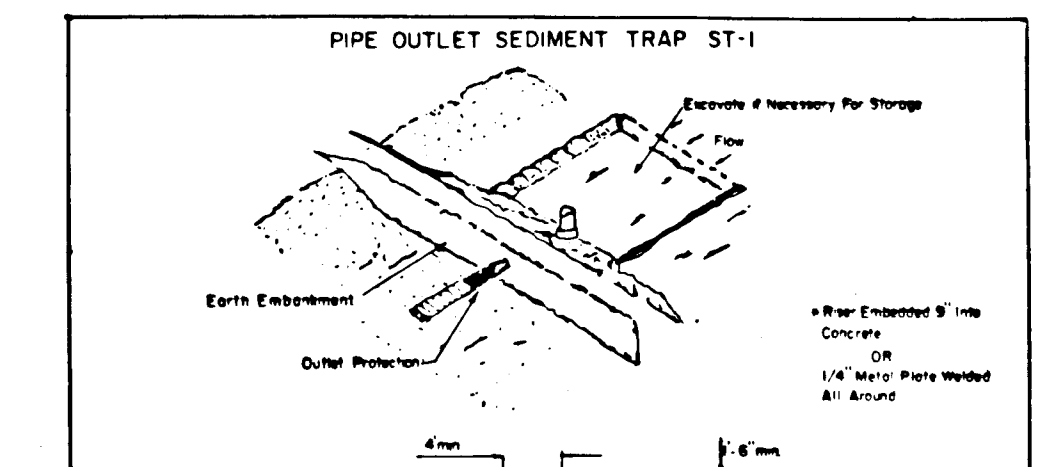


CONSTRUCTION SPECIFICATIONS

- Bales shall be placed at the toe of a slope or on the contour and in a row with ties tightly fastening the adjacent bales.
- Each bale shall be positioned in the soil a minimum of (4) inches, and placed so the bindings are horizontal.
- Bales shall be securely anchored in place by either two stakes or re-bars driven through the bale. First stake in each bale shall be driven through the hole in the bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow of drainage.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

STRAW BALE DIKE STANDARD DRAWING SD-1



CONSTRUCTION SPECIFICATION FOR ST-I

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- Sediment trap shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- All pipe connections shall be watertight.
- The top 2/3 of the riser shall be perforated with one (1) inch diameter holes or slots spaced six (6) inches vertically and horizontally and placed in the concave portion of pipe. No holes will be allowed within six (6) inches of the horizontal barrel.
- The riser shall be wrapped with 1/4 to 1/2 inch hardware cloth wire then wrapped with filter cloth (having an equivalent sieve size of 40 - 80). The filter cloth shall extend six (6) inches above the highest hole and six (6) inches below the lowest hole. Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent bypass.
- Staples or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the riser.
- Fill material around the pipe spillway shall be hand compacted in four (4) inch layers. A minimum of two (2) feet of hand-compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment.
- The riser shall be anchored with either a concrete base or steel plate base to prevent flotation. For concrete bases the depth shall be 12 inches with the riser embedded nine (9) inches. A 1/4 inch minimum thickness steel plate shall be attached to the riser by a continuous weld around the bottom to form a watertight connection and then place two (2) feet of stone, gravel, or tamped earth on the plate.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

PIPE OUTLET SEDIMENT TRAP STANDARD DRAWING ST-I

CONSTRUCTION SPECIFICATIONS

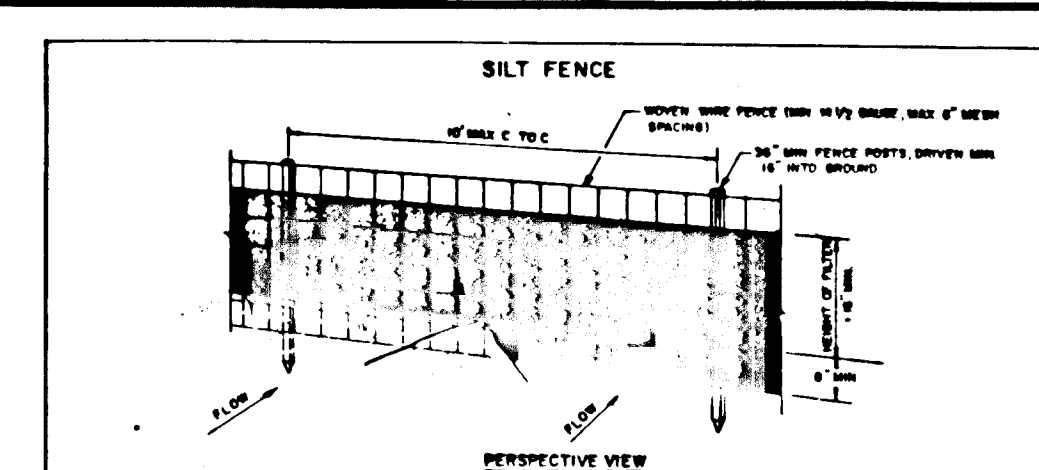
- Materials
- Procedure

STORM INLET PROTECTION

- Excavate completely around inlet to a depth of 18" below notch elevation.
- Drive 2 x 4 post 1' into ground at four corners of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
- Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch level. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
- This structure must be inspected frequently and the filter fabric replaced when clogged.

Curb Inlet Protection

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

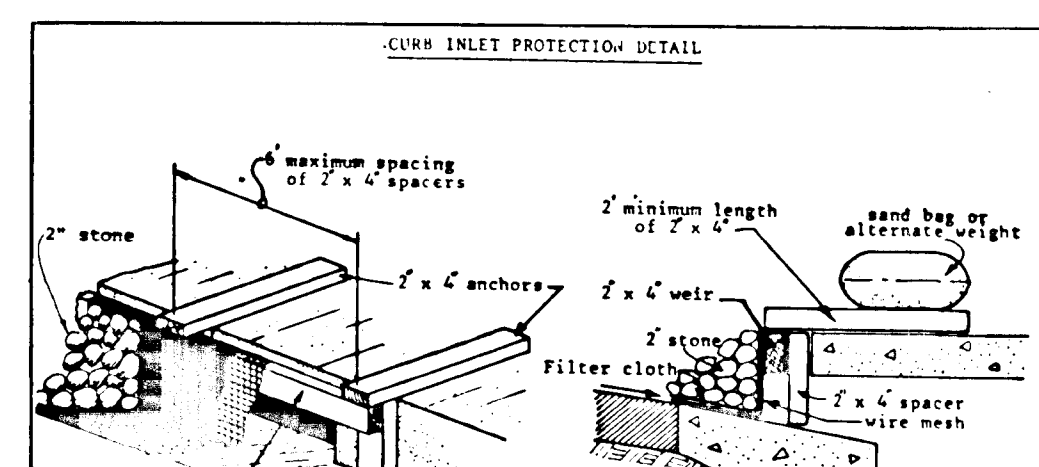


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- When wire fence is fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to wooden wire fence with ties spaced every 24" at top and mid section.
- When two sections of filter cloth align each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when bales are removed in the silt fence.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

SILT FENCE STANDARD DRAWING SF-1



CONSTRUCTION SPECIFICATIONS

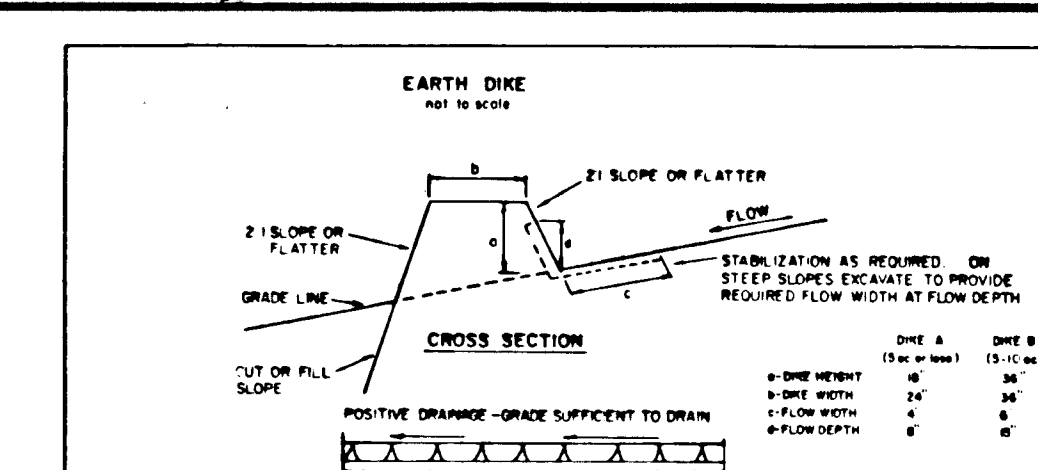
- Excavate completely around inlet to a depth of 18" below notch elevation.
- Drive 2 x 4 post 1' into ground at four corners of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
- Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch level. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
- This structure must be inspected frequently and the filter fabric replaced when clogged.

Curb Inlet Protection

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

CONSTRUCTION SEQUENCE PHASE II

- OBTAIN GRADING PERMIT.
- INSTALL TREE PROTECTION FENCE PRIOR TO ANY INSTALLATION OF SEDIMENT CONTROL DEVICES.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
- CONSTRUCT REMAINING SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN.
- CLEAR & GRUB AREAS WITHIN LIMITS OF DISTURBANCE.
- GRADE ROADS TO SUBGRADE. INSTALL STORM DRAIN SYSTEMS 13, 14, & 15.
- ROUGH GRADE SITE AS SHOWN & BEGIN INSTALLATION OF WATER AND SEWER.
- INSTALL CURB & GUTTER AND SIDEWALKS AS SHOWN.
- LAY BASE COURSE FOR ROADWAYS.
- DURING CONSTRUCTION & AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT & PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT & EROSION CONTROL STRUCTURES SHOWN HEREON, FOR PHASES I & II. CONTRACTOR SHALL INSPECT FOREWARD AT THE TEMPORARY SEDIMENT BASIN DAILY AND MAINTAIN AS REQUIRED.
- REMOVE STABILIZED CONSTRUCTION ENTRANCE.
- CLEAN BASE COURSE, APPLY TACT COAT, BASE COURSE & SURFACE COURSE. STABILIZE ALL DISTURBED AREAS USING PERMANENT SEEDING MIXTURE & STRAW MULCH.
- VERIFY TEMPORARY SEDIMENT BASIN TO PERMANENT STORMWATER MANAGEMENT POND. INSTALL ALL REQUIRED OUTFALLS WITH RIPRAP AS SHOWN.
- UPON PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES, EXCEPT SEDIMENT TRAP NO. 1 & STABILIZE ANY REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE & STRAW MULCH.
- UNBLOCK STORM DRAIN SYSTEM 4 & 5.
- FLUSH STORM DRAIN SYSTEMS.

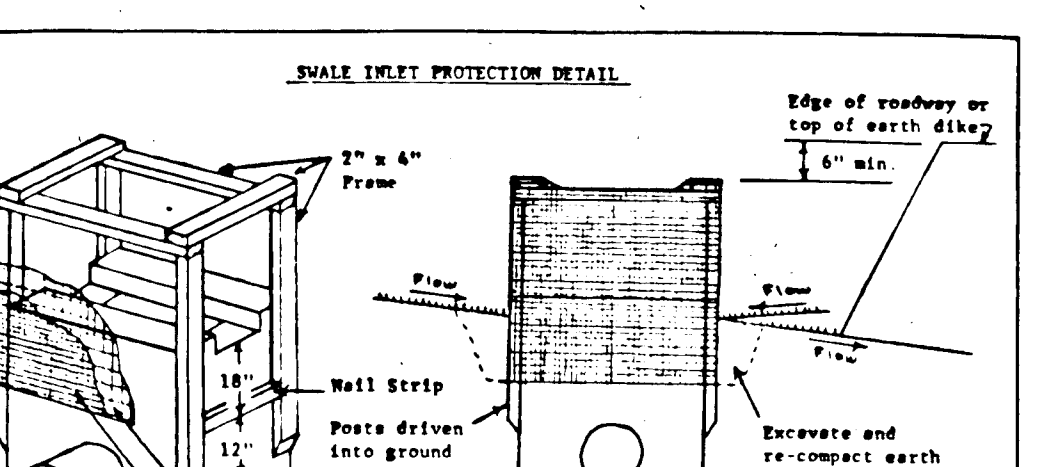


CONSTRUCTION SPECIFICATIONS

- All dikes shall be constructed by earthmoving equipment.
- All dikes shall have positive drainage to an outlet. If desired to facilitate crossing by construction traffic.
- Earth dikes shall be constructed as needed to utilize a stabilized safe outlet. Earth dikes shall have an outlet that functions with a minimum of erosion. Dikes shall be constructed to a sediment trapping device such as a sediment trap or silt matting basin where the dike channel on the drainage area above the dike are not readily stabilized.
- Stabilization shall be: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND

EARTH DIKE STANDARD DRAWING ED-1



CONSTRUCTION SPECIFICATIONS

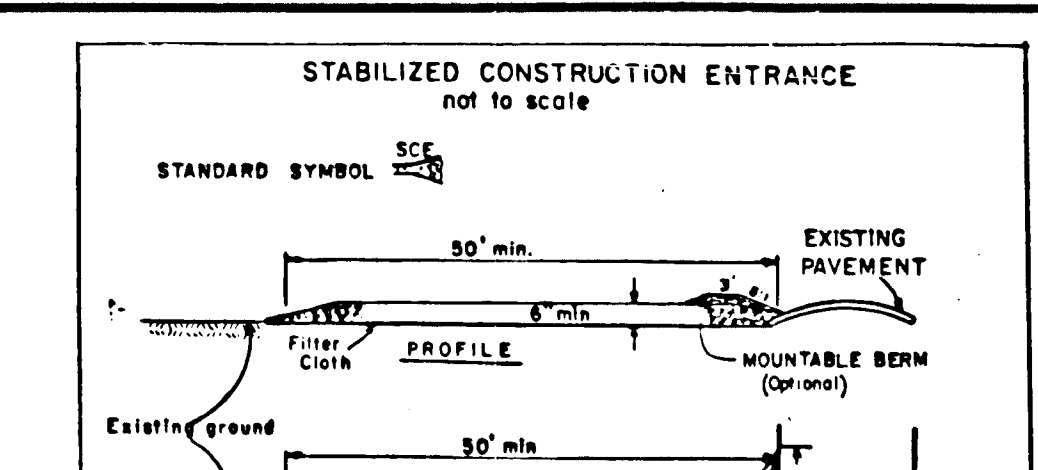
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- Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch level. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
- This structure must be inspected frequently and the filter fabric replaced when clogged.

Curb Inlet Protection

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

CONSTRUCTION SEQUENCE PHASE II

- OBTAIN GRADING PERMIT.
- INSTALL TREE PROTECTION FENCE PRIOR TO ANY INSTALLATION OF SEDIMENT CONTROL DEVICES.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
- CONSTRUCT REMAINING SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN.
- CLEAR & GRUB AREAS WITHIN LIMITS OF DISTURBANCE.
- GRADE ROADS TO SUBGRADE. INSTALL STORM DRAIN SYSTEMS 13, 14, & 15.
- ROUGH GRADE SITE AS SHOWN & BEGIN INSTALLATION OF WATER AND SEWER.
- INSTALL CURB & GUTTER AND SIDEWALKS AS SHOWN.
- LAY BASE COURSE FOR ROADWAYS.
- DURING CONSTRUCTION & AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT & PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT & EROSION CONTROL STRUCTURES SHOWN HEREON, FOR PHASES I & II. CONTRACTOR SHALL INSPECT FOREWARD AT THE TEMPORARY SEDIMENT BASIN DAILY AND MAINTAIN AS REQUIRED.
- REMOVE STABILIZED CONSTRUCTION ENTRANCE.
- CLEAN BASE COURSE, APPLY TACT COAT, BASE COURSE & SURFACE COURSE. STABILIZE ALL DISTURBED AREAS USING PERMANENT SEEDING MIXTURE & STRAW MULCH.
- VERIFY TEMPORARY SEDIMENT BASIN TO PERMANENT STORMWATER MANAGEMENT POND. INSTALL ALL REQUIRED OUTFALLS WITH RIPRAP AS SHOWN.
- UPON PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES, EXCEPT SEDIMENT TRAP NO. 1 & STABILIZE ANY REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE & STRAW MULCH.
- UNBLOCK STORM DRAIN SYSTEM 4 & 5.
- FLUSH STORM DRAIN SYSTEMS.

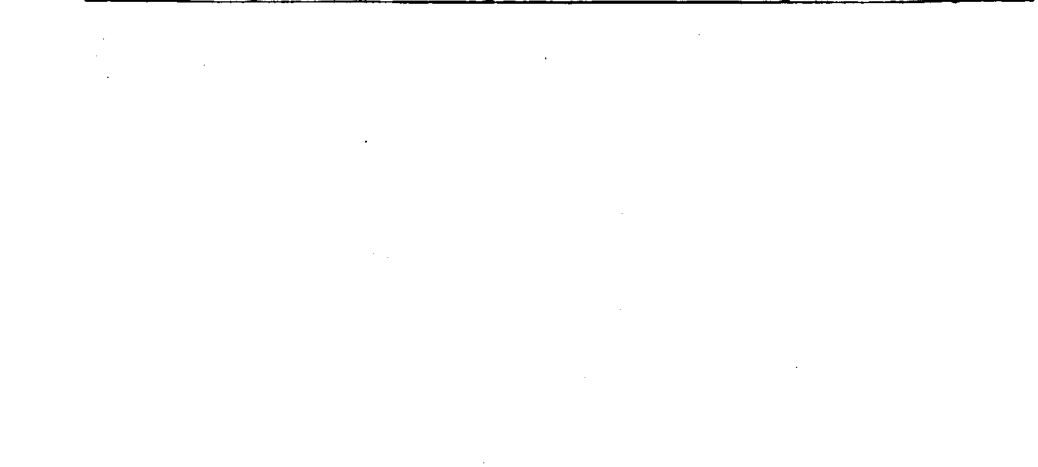


CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent. Length - As required, but not less than 50 feet (except on a single resistance lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Meter - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD.

STABILIZED CONSTRUCTION ENTRANCE STANDARD DRAWING SC-1



CONSTRUCTION SPECIFICATIONS

- Excavate completely around inlet to a depth of 18" below notch elevation.
- Drive 2 x 4 post 1' into ground at four corners of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
- Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch level. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
- This structure must be inspected frequently and the filter fabric replaced when clogged.

Curb Inlet Protection

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

CONSTRUCTION SEQUENCE PHASE II

- OBTAIN GRADING PERMIT.
- INSTALL TREE PROTECTION FENCE PRIOR TO ANY INSTALLATION OF SEDIMENT CONTROL DEVICES.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
- CONSTRUCT REMAINING SEDIMENT CONTROL DEVICES AS SHOWN ON PLAN.
- CLEAR & GRUB AREAS WITHIN LIMITS OF DISTURBANCE.
- GRADE ROADS TO SUBGRADE. INSTALL STORM DRAIN SYSTEMS 13, 14, & 15.
- ROUGH GRADE SITE AS SHOWN & BEGIN INSTALLATION OF WATER AND SEWER.
- INSTALL CURB & GUTTER AND SIDEWALKS AS SHOWN.
- LAY BASE COURSE FOR ROADWAYS.
- DURING CONSTRUCTION & AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT & PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT & EROSION CONTROL STRUCTURES SHOWN HEREON, FOR PHASES I & II. CONTRACTOR SHALL INSPECT FOREWARD AT THE TEMPORARY SEDIMENT BASIN DAILY AND MAINTAIN AS REQUIRED.
- REMOVE STABILIZED CONSTRUCTION ENTRANCE.
- CLEAN BASE COURSE, APPLY TACT COAT, BASE COURSE & SURFACE COURSE. STABILIZE ALL DISTURBED AREAS USING PERMANENT SEEDING MIXTURE & STRAW MULCH.
- VERIFY TEMPORARY SEDIMENT BASIN TO PERMANENT STORMWATER MANAGEMENT POND. INSTALL ALL REQUIRED OUTFALLS WITH RIPRAP AS SHOWN.
- UPON PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES, EXCEPT SEDIMENT TRAP NO. 1 & STABILIZE ANY REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE & STRAW MULCH.
- UNBLOCK STORM DRAIN SYSTEM 4 & 5.
- FLUSH STORM DRAIN SYSTEMS.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (892-2437)
- ALL NEGATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1982 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1982 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 511, SOP. (SEC. 541), TEMPORARY SEEDING (SEC. 501) AND MULCHING (SEC. 521). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	5.01	ACRES
AREA TO BE ROOFED OR PAVED	5.26	ACRES
AREA TO BE VEGETATIVELY STABILIZED	4.26	ACRES
TOTAL CUT	1,264	CU. YDS
TOTAL FILL	1,264	CU. YDS
OFF-SITE WASTE/BORROW AREA LOCATION	TO BE DETERMINED	
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR REPLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED BEFORE COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL. BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30, AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.); FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ. FT.); APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- DEFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 14, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

THIS SHEET SUPERCEDED PREVIOUSLY APPROVED SHEET 7 OF 7.

SEDIMENT CONTROL NOTES & DETAILS
PHASE TWO

PLEASANT CHASE

SECTION ONE
PARCEL 21, 220, 623, 634
RESUBDIVISION OF "ONE SPOT HEIGHTS"
PLAT BOOK 3 FOLIO 36, 7, 8, 9, 10, 12, 14
RESUBDIVISION OF "WILLA HEIGHTS"
PLAT BOOK 3 FOLIO 45

BLOCK "A" (LOTS 4, 5, 6, 7) BLOCK "D" (LOTS 7, 8, 9)
BLOCK "E" (LOTS 1-8) BLOCK "F" (LOTS 1-4)
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: 1-92
SHEET 1 OF 7
REF: 501-04, WP 01-55, PD 272, WP 02-185, WP 93-09

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