

			STF	RUCTUR	E SCHE	DULE		
NO.	TYPE	BASELINE	STATION	OFFSET	TOP OF STRUCT.	INV. OUT	STANDARD	REMARKS
I-2	OPEN END GRATE INLET	₽ #2	3+82	48' LT.	236.60	229.58	HO. CO. SD. 4.36	DOUBLE OPENING
1-3	'D' INLET	B. #2	2+70	53' LT.	242.40	236.33	HO. CO. SD. 4.11	
MH-4	BRICK MH	₽ B	2+42	64' RT.	254.00	246.63	HO. CQ G 5.01	HO. CO. G-5.12 OPTIONAL
I <b>-</b> 5	'S' INLET	<b>₽</b> B	2+ 64	33' LT.	255.40	251.07	HO. CO. SD. 4.22	"S" GRATE
I-6	YARD INLET	<b>8</b> . B	2+55	77' LT.	259.00	253.23	HO. CO. SD. 4.14	
+-8	'S' INLET	8.4	0+85	5 <sup>'</sup> LT.	202.50	199.54	HO. CO. SD. 4.22	"S"GRATE-
I-IA	'S' INLET	<b>8</b> 2	3+78	14' RT.	232.30	225.00	HO. CO. SD. 4.93	"S" GRATE
					<b>.</b>			<u> </u>

NOTE: HO.CO. S.D. 4.37 PRECAST INLET MAY BE USED AS OPTION TO HO.CO. S.D. 4.22

	PIPE SCHEDULE							
FROM	то	SIZE	TYPE	LENGTH				
I-IA	1-2	15"	RCCP CL. III	98'				
1-2	1-3	15"	RCCP CL. III	119' ,				
1-3	MH-4	15"	RCCP CL. III	170'				
MH-4	I <b>-</b> 5	15"	RCCP CL. III	98'				
1-5	1-6	15"	RCCP CL. III	44'				
_ <del>EX. 1-7</del>		15"	RCCP CL. III	18'				
EX. I-I	I-IA	15"	RCCP CL. III	62'				
				' ."'				

<u>L</u>		
WOODWA	RD STREET (STORM DRAIN SYSTEM to EX. II	NLET 2)
Ex. INLE	<u>r 2</u>	
TIE 1 TIE 2	TO BGE POLE # 270224 TO SAN. SEWER MH	19.0° 26.3°
TIE 3	TO BGE POLE #23247	41.3'
INLET I	DISTANCE TO INLET IIA	98.6'
TIE 4	TO CORNER OF HOUSE # 8421	27.0′
TIE 5	TO CORNER OF FENCE @ HOUSE # 8427 DISTANCE TO INLET 2	9.0′ 69.5′
INLET 2	- VIOTANCE NO INCLI Z	67.5
TIE 6	TO FRONT RIGHT CORNER OF SHED	18.8′
TIE7	TO END OF WOOD FENCE® HOUSE#8421 DISTANCE TO INLET 3	7.0' 72.3'
INLET 3		
TIE 8 TIE 9	TO CORNER OF FENCE @ HOUSE # 8415 TO BACK RIGHT CORNER OF SHED	4.6' 35.4'
	DISTANCE TO MH 4	122.0′
MH 4 TIE 10	TO FENCE CORNER@HOUSE# 8409	11.8′
TIE II	TO RET. WALL BEHIND HOUSE #8405	23.3'
INLET 5	DISTANCE TO INLET 5	125.3′
TIE 12	TO FENCE CORNER BETWEEN LOT 2430	P.L. 31.6'
TIE 13	TO FENCE ON ANGLE TO LFT. REAR OF SHE	DLOT 2 11.8'
INLET 6	DISTANCE TO INLET 6	86.01
TIE 14	TO FENCE CORNER BETWEEN LOT 243	eP.L. 68.5'
TIE 15	TO LGE. OAK TREE BETWEEN PARKING AND GAZEBO	3 AREA 79.8'

7-6-98 AS-BUILT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. & ASSOCIATES, INC. CONSULTING ENGINEERS 90 GOV. RITCHIE HIGHWAY

PASADENA, MARYLAND

301-647-6000

DRN: J.R.R. CHK:SGZ 1/24/94 DATE: 1/94 BY NO. REVISION

STORM DRAIN PROFILES SCHEDULES

DATE 500' SCALE MAP NO. 47 BLOCK NO. 11

200

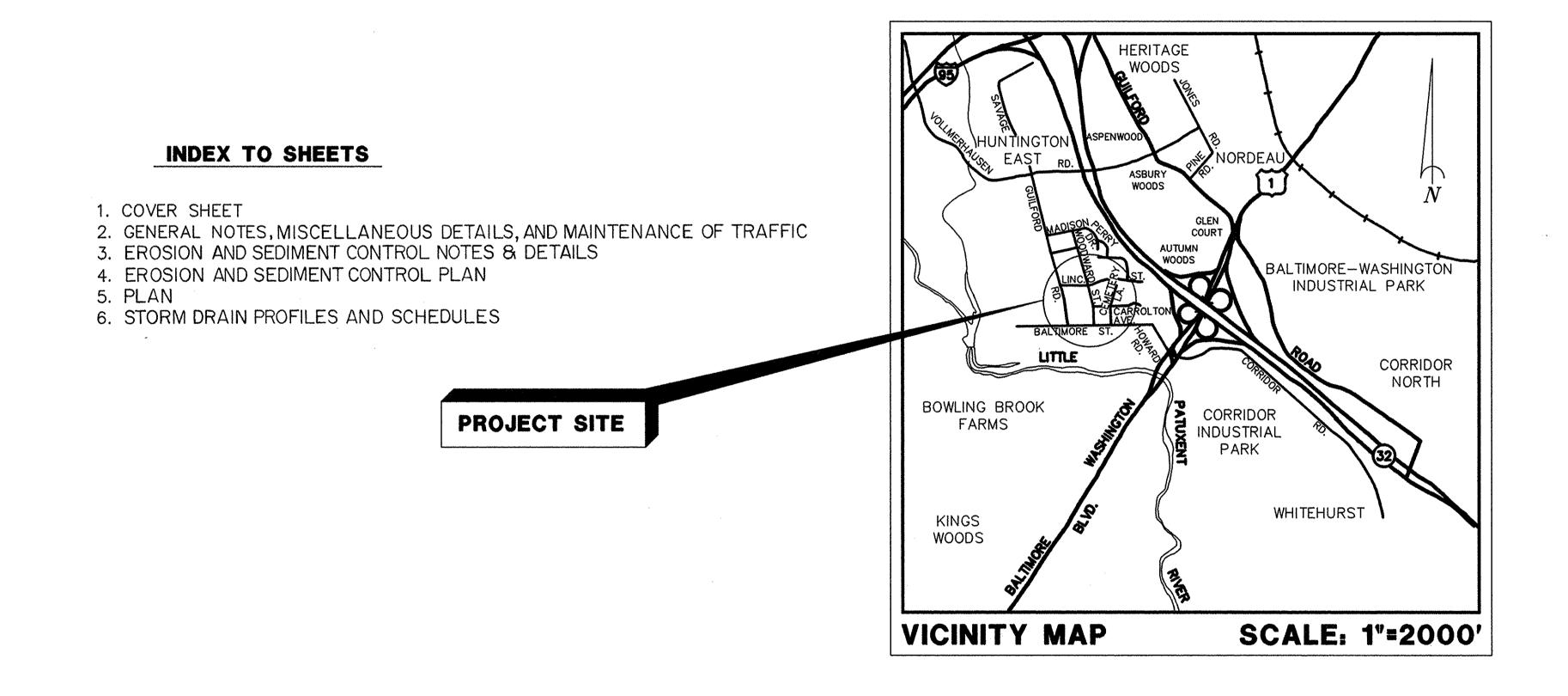
190

Cap. Proj. # D-1078 A

WOODWARD STREET

SCALE AS SHOWN SHEET X20F X 2

## HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND



### WOODWARD STREET DRAINAGE IMPROVEMENTS

CAPITAL PROJECT NO. D-1078A

#### CERTIFICATION BY DEVELOPER

CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL

REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT".

REVIEW FOR HOWARD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR

HOWARD .C.D.

NOT REPRESENT THE OFFICIAL PROPERTY ACQUISITION LINES. FOR OFFICIAL FEE RIGHT-OF-WAY AND EASEMENT INFORMATION REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.

DEPARTMENT OF PUBLIC WORKS

JOHN E. HARMS, JR. & ASSOCIATES, INC CONSULTING ENGINEERS 90 GOV. RITCHIE HIGHWAY PASADENA, MARYLAND 301-647-6000

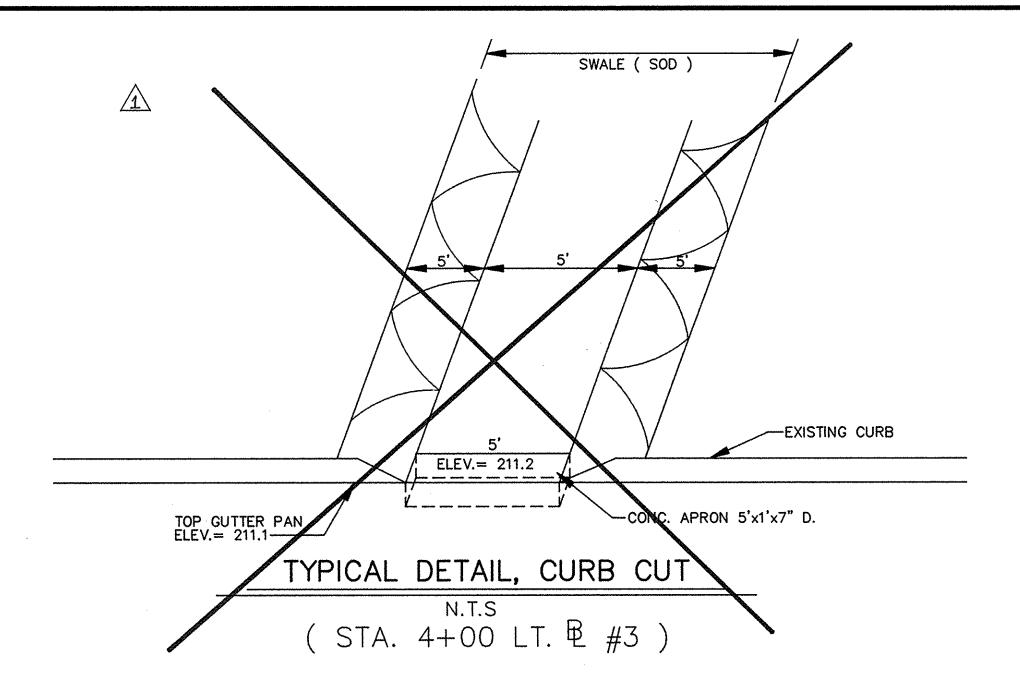
DES: D.M.D. DRN: J.R.R CHK: S.G.Z DATE 600' SCALE MAP NO. 47 BLOCK NO. 11 **REVISION** 

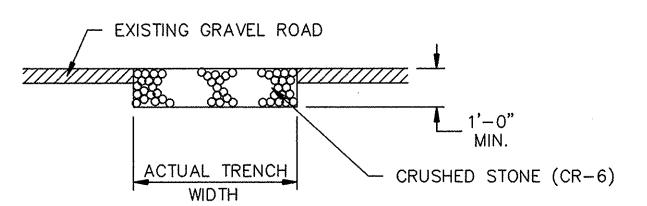
COVER SHEET

WOODWARD STREET

SCALE AS SHOWN SHEET

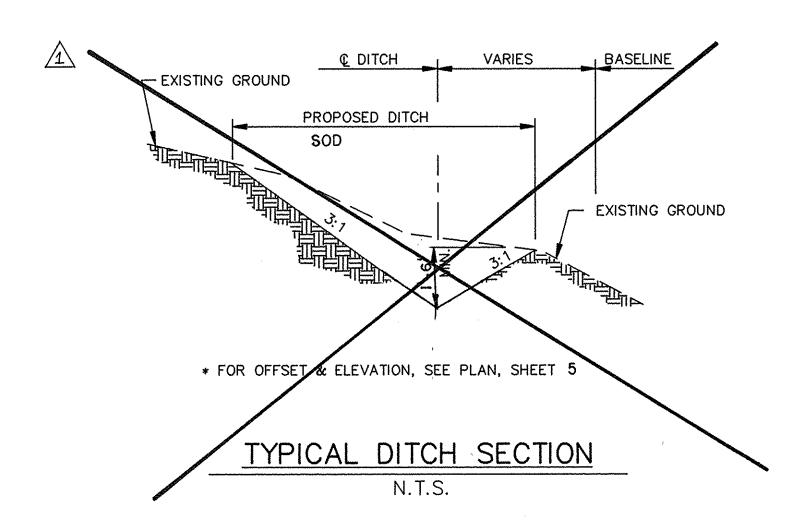
1 OF 6





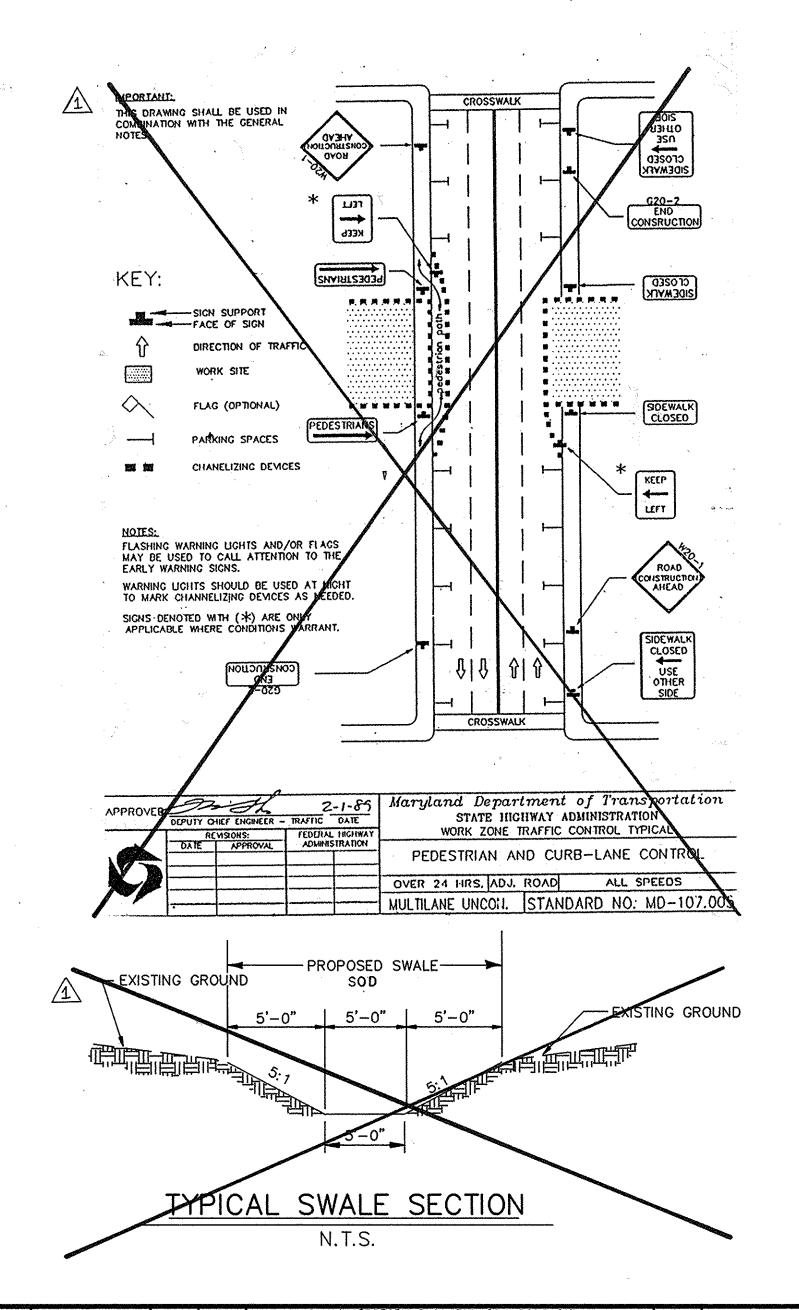
1. ALL COSTS FOR TRENCH EXCAVATION, BACKFILL MATERIALS, TOOLS, LABOR, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE OF THE VARIOUS DRAINAGE ITEMS AND WILL NOT BE MEASURED OR PAID SEPARATELY.

### PARKING LOT PAVEMENT REPAIR N.T.S



#### MAINTENANCE OF TRAFFIC GENERAL NOTES

- CONSTRUCTION AND MATERIALS FOR THE TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH E STANDARDS CONTAINED IN THE 1988 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ANY SUBSECUENT ADDENDA.
- 2.) ACCESS TO ALL PRIVATE DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES BETWEEN THE HOURS OF 3:00 PM AND 9:00 AM, BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM, ACCESS SHALL BE MAINTAINED EXCEPT WHEN PROHIBITED BY AN OPEN TRENCH. ALL AFFECTED RESIDENTS SHALL BE NOTIFIED AT LEAST ONE (1) HOUR PRIOR TO CLOSING OF ANY DRIVEWAY.
- 3.) TRAVEL LANES SHALL BE A MINIMUM OF TEN FEET IN WIDTH. WHEN ONLY ONE LANE IS OPEN, FLAGMEN AND THE APPROPRIATE SIGNING SHALL BE PROVIDED. THE ROADWAY SHOULD BE REOPENED TO TWO LANES
- 4.) IF A DROPOFF MEASURES GREATER THAN 4", A BARRIER OR 2:1 SLOPE OF COMPACTED CRUSHER-RUN GRAVEL WILL BE REQUIRED.
- 5.) ALL OPEN TRENCHES SHALL BE CLOSED AT THE OF EACH DAY. IF STEEL PLATES ARE TO BE USED, APPROPRIATE SIGNING IS REQUIRED.
- 6.) ALL SIGNS THAT DO NOT APPLY SHALL BE
- 7.) ALL CONES AND FLAGMEN SHALL BE MOVED ACCORDINGLY AS CONSTRUCTION PROGRESSES.
- 8.) ALL CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE TYPICAL SIGN PLACEMENT SHOWN ON THESE PLANS AND SHALL NOT OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES.
- 9.) CONSTRUCTION AND WORKMENS VEHICLES SHALL NOT BE PARKED IN A MANNER THAT WILL IMPEDE TRAFFIC OR IMPAIR SIGHT DISTANCE.
- 10.) WHERE TRAFFIC IS BEING MAINTAINED ON ONE SIDE OF THE ROAD WHILE CONSTRUCTION TAKES PLACE ON THE OTHER, APPROPRIATE BARRIERS, BARRICADES OR DRUMS SHALL BE PLACED BETWEEN THE TRAVELED WAY AND THE CONSTRUCTION AREA. APPROVED TYPE A LOW INTENSITY FLASHING WARNING TS SHALL BE USED DURING HOURS OF DARKNESS. BOTH TRAVEL DIRECTIONS WILL BE POSTED WITH QUENCE OF TRAFFIC CONTROL SIGNS AS INDICATED ON THE TRAFFIC CONTROL TYPICALS. ANY SSOVERS SHALL BE MARKED WITH APPROVED CHANNELIZATION DEVICES AND SIGNS.



#### GENERAL NOTES

- 1. Right of Way lines shown on these plans are shown for the assistance in interpreting the Plans. For any Fee Right of Way and Easement information, see Right of Way Plats.
- 2. All pipe elevations are invert elevations.

Curb Type Inlets

Grate Type Inlets

Structures w/Stack

Manholes

- 3. All disturbed areas shall receive seeding & mulching except where otherwise indicated on plans or as directed by the Engineer.
- 4. The Contractor shall install and maintain all Temporary Sediment Control Measures as shown on the drawings. However, any Sediment Control Measures, not specifically indicated in the Contract Documents, but required as a result of the Contractors excavations or activities shall not be cause for Extra Payment.

5. Location Points for Inlets, Manholes, and Structures Horizontal Location

> Center Face of Curb Top of Curb Top of Grate Center of Grate Top of Structure Center of Structure Top of Structure Center of Structure

Vertical Location

Pipe Invert

6. Approximate location of existing utilities are shown. The Contractor shall take all necessary precautions to protect existing utilities and to maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer by the Contractor at the Contractor's expense. Existing utilities have been located from available as-built drawings and field surveys.

Center of Wall

- 7. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in the vicinity of utilities. Costs for locating existing utilities and for adjusting utility appurtenances to meet finished grades will not be measured or paid for by the Engineer.
- 8. Contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these plans.

Howard County Division of Sediment Control 880-3450 Miss Utility 1-800-257-7777

Balt. Gas & Electric Company— Underground Electric Distribution Eng. "Damage Control" 787—9068
Balt. Gas & Electric Company— Underground Gas Distribution Eng. "Damage Control" 787—9068
Chesapeake and Potomac Telephone Company Repair Service 954—2222

Howard County Bureau of Utilities 313-4900 Howard Cable TV 461-1156

Howard County Division of Traffic Engineering 313-2430 Howard County Surveying and Drafting Division 313—2417 Howard County Bureau of Construction Inspection 313—1870

9. All manholes shall be 4'-0" inside diameter

- 10. Standard details for this contract shall be the Howard County Standard Details as supplemented by the Maryland State Highway Administration Standard Details, Maryland State Standards & Specifications for Soil Erosion & Sediment Control, and Manual on Uniform Traffic Control Devices of the U.S Department of Transportation.
- 11. Trees are to be protected from damage to the maximum extent. Trees located outside the construction strip are not to be removed or damaged by the contractor
- 12. Contractor shall remove trees, stumps and roots, along line of excavation as directed by the Engineer. Payment for such removal shall be included in the lump sum price bid for Clearing and Grubbing.
- 13. Place regulation and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- 14. Top elevations of structures shall be adjusted in the field to meeting existing conditions as directed by the Engineer.
- 15. Grading shall be done in such a manner so as to insure positive drainage to the proposed
- 16. Horizontal and vertical Controls are based on the Maryland State Grid Coordinate System as projected by Howard County - Geodetic Control Point Numbers 1942005 & 1942006, NAD27 (Vertical Control NAD29).
- 17. Surveys performed by Loiderman Associates, 1990; updated by Harms & Associates, 1993.
- 18. For Details not shown on the drawings, and for Materials and Construction Methods, the Contractor shall abide by the Howard County Design Manual, Volume IV, "Standard Specifications and Details for Construction" and the Special Provisions. In the event of any discrepancy between these two sources, the latter shall govern.
- 19. Existing fences, mailboxes, signs and shrubs disturbed by the work shall be reconstructed or replaced
- 20. Clearance between existing and proposed utilities shall be a minimum of 1'-0", clearance between all utility poles and proposed utilities shall be a minimum of 5'-0". Cost of bracing at poles shall be included in the unit price bid for storm drain structures except where specified otherwise.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND C

JOHN E. HARMS, JR. & ASSOCIATES, INC. CONSULTING ENGINEERS 90 GOV. RITCHIE HIGHWAY

PASADENA, MARYLAND

301-647-6000



DRN: J.R.R. CHK: S.G.Z 1/24/94 DATE:1/94 BY NO. DATE 600' SCALE MAP NO. 47 BLOCK NO. 11 REVISION

GENERAL NOTES, MISCELLANEOUS DETAILS

WOODWARD STREET

SCALE AS SHOWN

SHEET

2 <sub>OF</sub> 6

#### SEDIMENT CONTROL NOTES

- 1. All Grading Permits shall be obtained prior to the starting of any Grading work.
- 2. 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 (313–1855)
- 3. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 4. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
- 5. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, Storm Drainage, of the Howard County Design Manual.
- 6. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONSFOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod(Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recomended seeding dates do not allow proper germination and establishment of grasses.
- 7. 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.
- 8. Site Analysis

Total area of site R/W and easements
Area disturbed
Area to be roofed or paved
Area to be vegetatively stabilized
Total cut
Total fill
Offsite waste/borrow area location

4.1 acres
0.37 acres
0.08 acres
0.29 acres
137 cu. yds.
0 cu. yds.
To be determined by contractor, with pre-approval of the Sediment Control

- 9. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 10. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 11. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, 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.
- 12. See Sheet No. 5 for additional Sediment and Erosion Control Notes and Details.

#### 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 3 inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

#### Soil Amendments: Use one of the following schedules:

- 1) Preferred— 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 3 inches of soil. At time of seeding apply 400 lbs. per acre 30-0-0 ureaform fertilizer(9 lbs./1000 sq. ft.).
- 2) Acceptable— Apply 2 tons per acre dolomitic limestone (92 lbs./1000sq. 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 thru April 30 and August 1 thru October 15, seed with 60lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. of 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 thru 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—90 lbs./1000 sq. ft.) of un—rotted 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 emulcified 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 seeded areas, and make needed repairs, replacements, and reseedings.

#### TEMPORARY SEEDING

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

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by 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 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

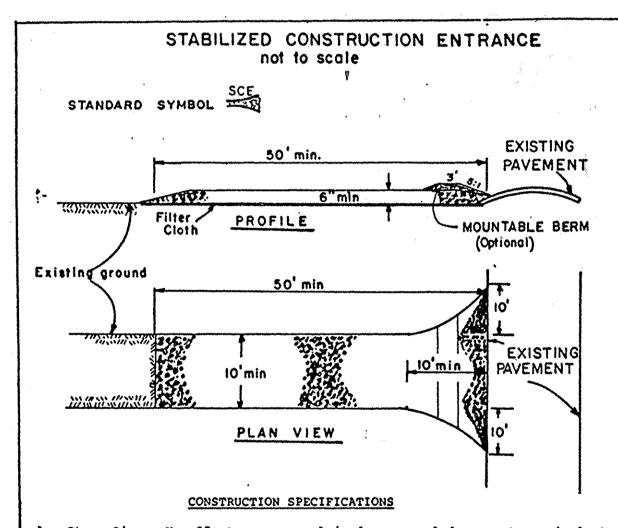
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

#### EROSION & SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION

- 1.) OBTAIN GRADING PERMITS
- 2.) CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES AND DEVICES (1 WEEK)
- 3.) INSTALL SEDIMENT CONTROL MEASURES AND DEVICES AS OUTLINED ON PLAN. (SHEET 5)(1 WEEK)
- 4.) NOTIFY HOWARD COUNTY SEDIMENT CONTROL INSPECTOR UPON COMPLETING INSTALLATION OF PERIMETER CONTROL.
- 5.) PERFORM WORK AS OUTLINED ON PLAN. (SHEET 5) (3 WEEKS)
- 6.) STABILIZE DISTURBED AREAS AND INSTALL ROADSIDE DITCH LINING AS OUTLINED IN THE SCHEDULES.(SHEET 6) (1 WEEK)
- 7.) REMOVE SEDIMENT CONTROL MEASURES AND DEVICES WITH PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR AND STABILIZE ANY REMAINING AREAS

#### NOTES:

- 1. SILT FENCE TO BE PLACED ON LOW SIDE OF TRENCH
- 2. OPEN TRENCH LENGTH IS LIMITED TO 3 PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED IN ONE DAY
- 3. EXCAVATED MATERIAL TO BE PLACED ON UPHILL SIDE OF TRENCH
- 4. SOD PLACEMENT, IF NECESSARY, SHALL BE IN ACCORDANCE WITH SHA STANDARD SPECIFICATIONS, JANUARY 1982 EDITION & JANUARY 1988 AMENDMENTS, SECTION 707.



- Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent.
   Length As required, but not less than 50 feet (except on a single residence 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.

  5. 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.

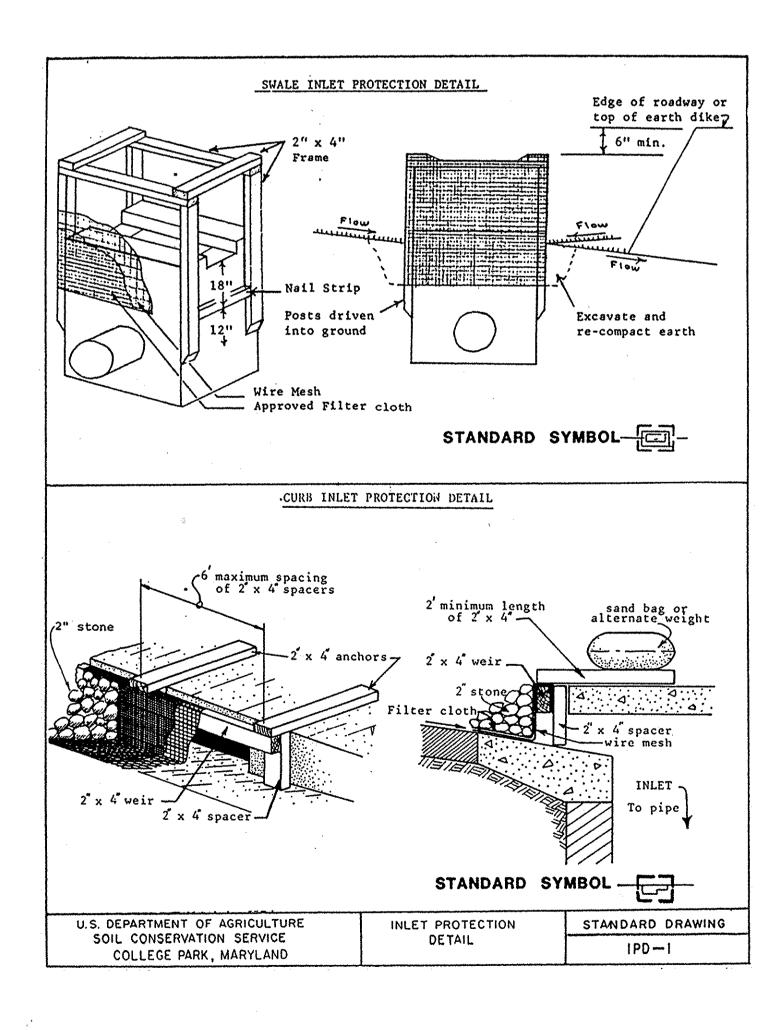
  6. Surface Water All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical,
- a mountable berm with 5:1 slopes will be permitted.

  7. 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must
- be removed immediately.

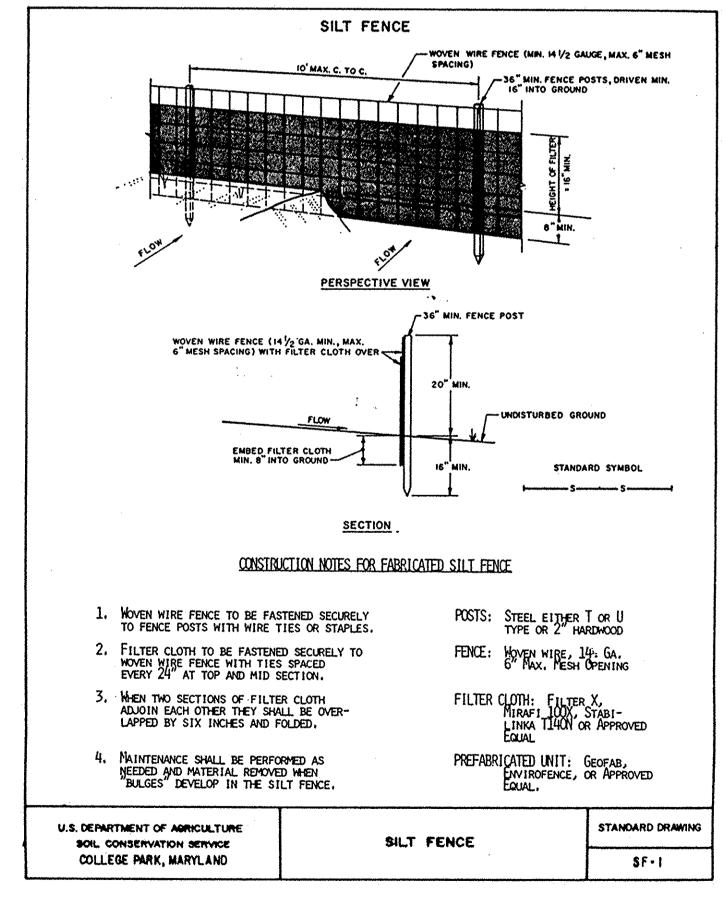
  8. Washing Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping
- device.

  Periodic inspection and meeded maintenance shall be provided after each rain.

Periodic inspection and neede	d maintenance shall be provi	ded after each
S. DEPARTMENT OF AGRICULTURE	STABILIZED CONSTRUCTION	Standard
SOIL CONSERVATION SERVICE	ENTRANCE	Drawing



REVISION



#### DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

3/26/98
RECTOR PUBLIC WORKS
DATE

CHIEF, BUREAU OF ENGINEERING

CHIEF, BUREAU OF TRANSPORTATION PROJECTS

THEF, BUREAU OF TRANSPORTATION PROJECTS

#### JOHN E. HARMS, JR. & ASSOCIATES, INC.

College Park, Md.

CONSULTING ENGINEERS

90 GOV. RITCHIE HIGHWAY

PASADENA, MARYLAND

301-647-6000



A.	DATE: 1/94	BY	NO.	
	CHK: S.G.Z.			
,	DRN: J.R.R.			
	DES: D.M.D.			
		1		

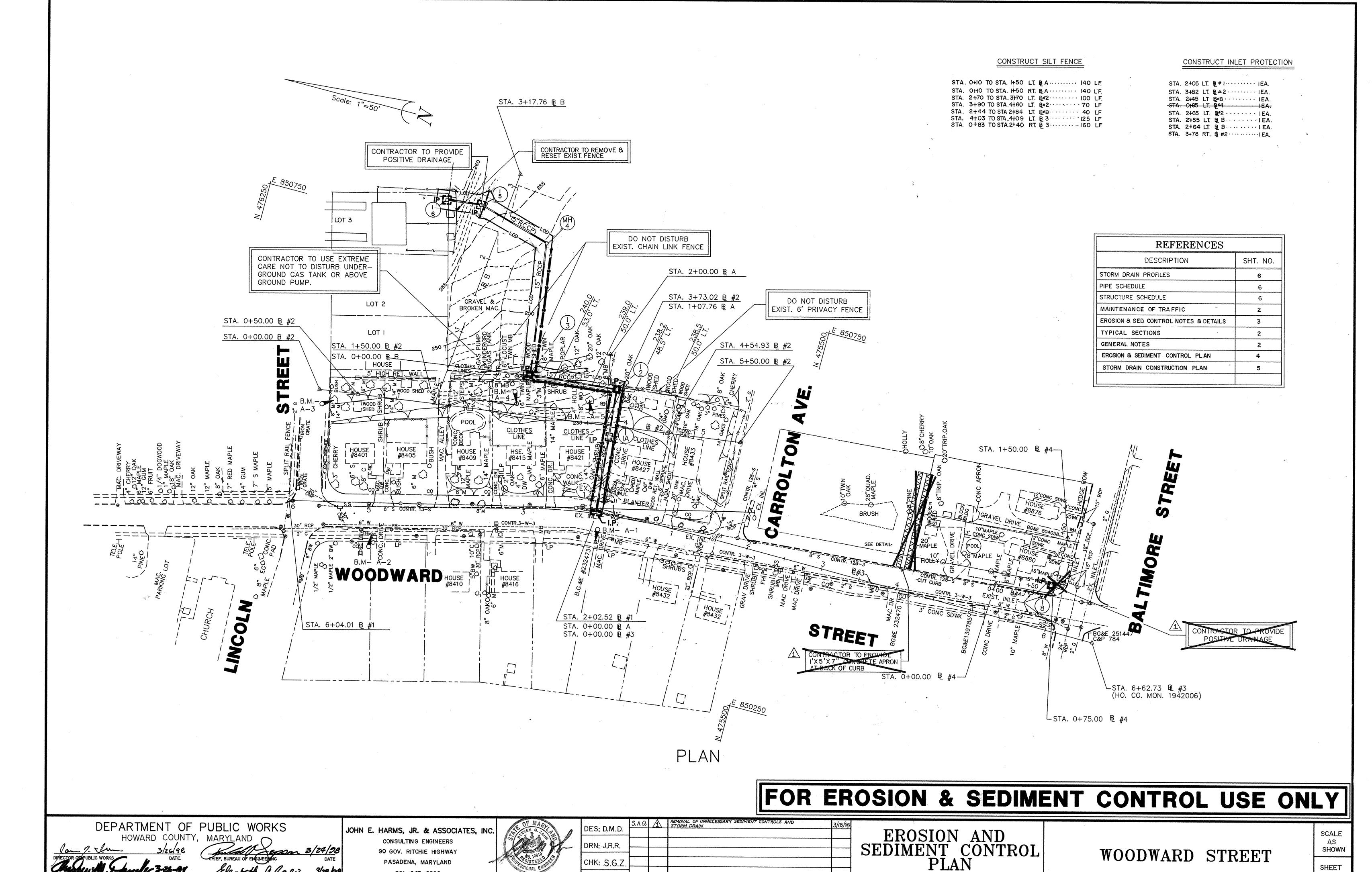
# EROSION AND SEDIMENT NOTES AND DETAILS

DATE 600' SCALE MAP NO. <u>47</u> BLOCK NO. <u>11</u>

WOODWARD STREET

SCALE AS SHOWN SHEET

<u>3</u> of <u>6</u>



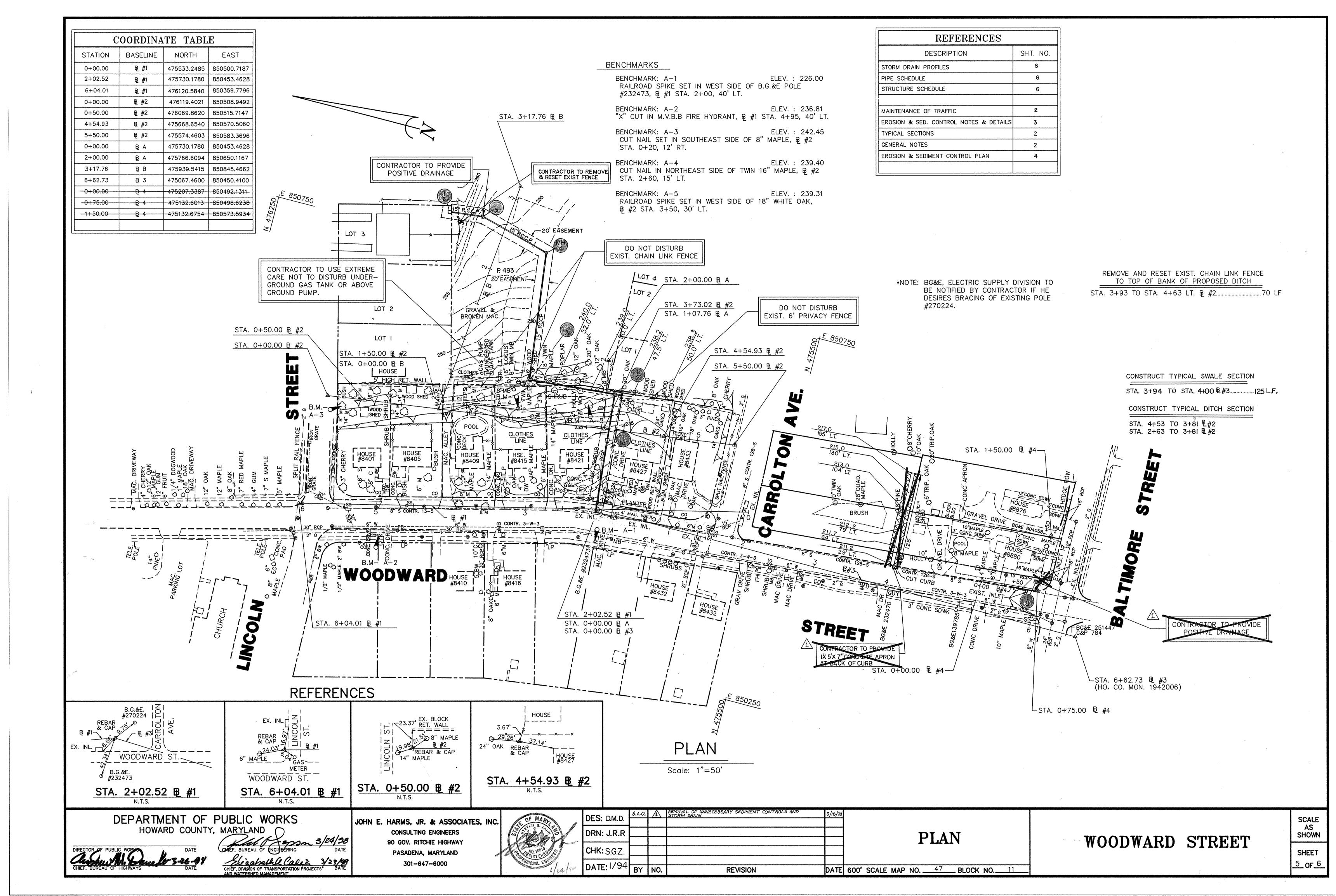
DATE: 1/94 BY NO.

REVISION

DATE 600' SCALE MAP NO. 47 BLOCK NO. 11

301-647-6000

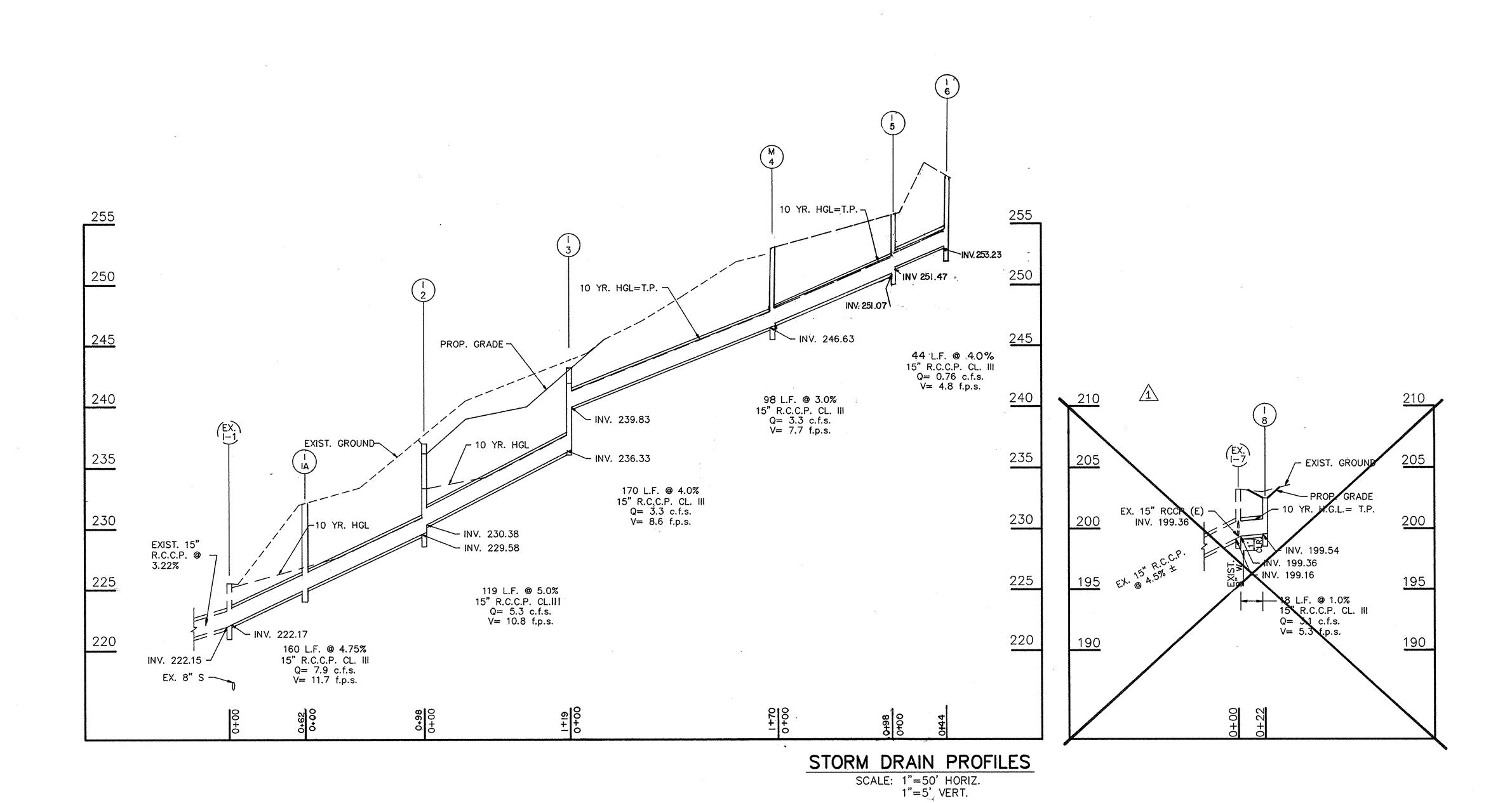
4 of 6



	STRUCTURE SCHEDULE									
NO.	TYPE	BASELINE	STATION	OFFSET	TOP OF STRUCT.	INV. OUT	STANDARD	REMARKS		
1-2	OPEN END GRATE INLET	₽ #2	3+82	48' LT.	236.60	229.58	HO. CO. SD. 4.36	DOUBLE OPENIN		
1–3	'D' INLET	B2 #2	2+70	53' LT.	242.40	236.33	HO. CO. SD. 4.11			
MH-4	4'-0" BRICK MH	₽B	2+42	64' RT.	254.00	246.63	HO. CO G 5.01	HO, CO, G-5 OPTIONAL		
1-5	'S' INLET	₿B	2+64	33 <sup>4</sup> LT.	255.40	251.07	HO. CO. SD. 4.22	"S" GRATE		
1-6	YARD INLET	B.B	2+55	77' LT.	259.00	253.23	HO. CO. SD. 4.14			
1-8-	'S' INLET	88. 4	0+85	5'-LT.	202.50	199.54	HO. CO. SD. 4.22	"S"GRATE		
I-IA	'S' INLET	₿2	3+78	14' RT,	232,30	225,00	HO. CO. SD. 4.93	"S" GRATE		

NOTE: HO.CO. S.D. 4.37 PRECAST INLET MAY BE USED AS OPTION TO HO.CO. S.L

	PIPE SCHEDULE								
	FROM	ТО	SIZE	TYPE	LENGTH				
	I-IA	I <b>-</b> 2	15"	RCCP CL. III	98'				
	I-2	I3	15"	RCCP CL. III	119'				
	1-3	MH-4	15"	RCCP CL. III	170'				
,	MH-4	I <b>-</b> 5	15"	RCCP CL. III	98'				
	1-5	1–6	15"	RCCP CL. III	44'				
	-EX: 1-7	<del>- 1-8</del>	15"	RCCP CL. III	1-8"				
***************************************	EX. I-I	I-IA	15"	RCCP CL. III	62'				
***************************************									



DEPARTMENT OF PUBLIC WORKS

JOHN E. HARMS, JR. & ASSOCIATES, INC. CONSULTING ENGINEERS 90 GOV. RITCHIE HIGHWAY PASADENA, MARYLAND

301-647-6000

DRN: J.R.R. CHK: S.G.Z. 1/24/94 DATE: 1/94 BY NO. DATE 600' SCALE MAP NO. 47 BLOCK NO. 11 REVISION

STORM DRAIN PROFILES SCHEDULES

WOODWARD STREET

SCALE AS SHOWN SHEET 6 OF 6