

VILLAGE OF LONGREACH

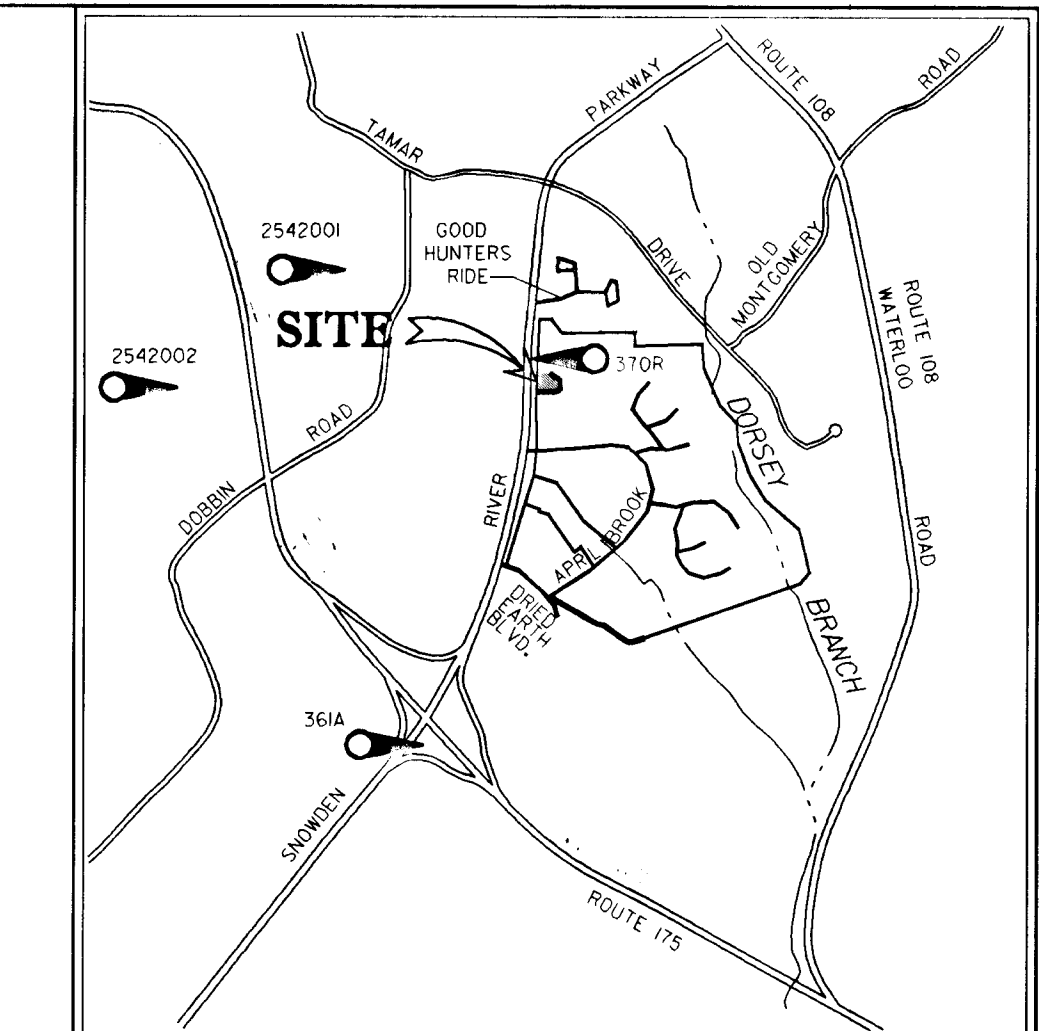
SECTION 4 AREA 2

LOTS A1-A61

RESUBDIVISION OF PARCEL A

6th ELECTION DISTRICT

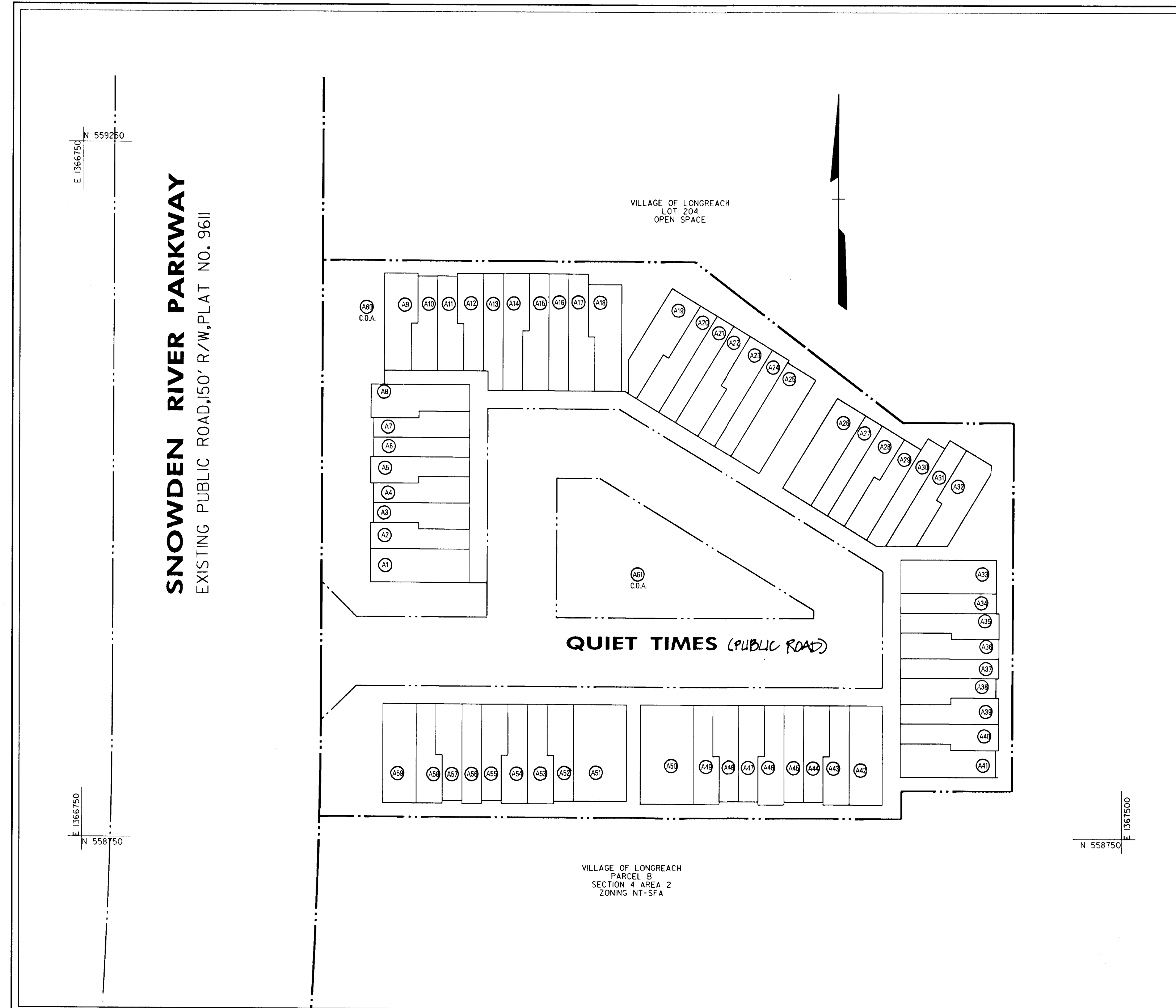
HOWARD COUNTY, MARYLAND



LOCATION MAP
SCALE: 1" = 1000'

GENERAL NOTES

1. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVER(S) HAVE BEEN APPROVED.
2. EXISTING ZONING IS NEW TOWN SFA PER 10-93 COMPREHENSIVE ZONING.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM AERIAL MAPS DATED 1963 FROM HOWARD RESEARCH & DEVELOPMENT CORP., SUPPLEMENTED BY CLARK, FINEROCK & SACKETT, INC. SEC & GRADING PLAN AND FIELD DATA BY DAFT McCUNE & WALKER 9/94.
4. THIS PROPERTY IS LOCATED WITHIN THE HOWARD COUNTY METROPOLITAN DISTRICT.
5. PUBLIC WATER AND SEWER SYSTEMS TO BE MADE AVAILABLE AND UTILIZED.
10. SOILS MAP 25
11. ALL OPEN SPACE TO BE GRANTED TO COLUMBIA ASSOCIATION OR H.O.A.
12. HORIZONTAL DATUM: NAD 83 / VERTICAL DATUM: NGVD 29
13. SEE COUNTY FILE NOS.: S-93-16, P-94-16, F-95-25, *24-3355-D, 20-3352-D, DEED REF. L. 1535 F. 103., FDP PHASE 216, SP-95-07
14. SEE ARMY CORP OF ENGINEERS PERMIT 94-NT-0527
15. WETLANDS SHOWN HAVE BEEN DETERMINED BY FIELD DELINEATION BY KIDDE CONSULTANTS AND SURVEYED BY FISHER, COLLINS AND CARTER, AND BY FIELD DELINEATION BY GTA AND SURVEYED BY GUTSCHICK, LITTLE & WEBER.
16. FLOODPLAIN STUDY FOR TRIBUTARIES TO DORSEY RUN PREPARED BY CLARK, FINEROCK & SACKETT, INC. FLOODPLAIN STUDY F-95-25 FOR DORSEY RUN TAKEN FROM PREVIOUSLY APPROVED STUDY BY PERDUM & JESCHKE, DATED MARCH 1987.
17. GEOTECHNICAL REPORT PREPARED BY ROBERT B. BALTER, INC.
18. TRAFFIC STUDY PREPARED BY WELLS & ASSOCIATES, DATED JULY 28, 1993.
19. BOUNDARY SURVEY PREPARED BY DAFT, McCUNE, & WALKER, INC. OCT 1994
20. SWM QUANTITY AND QUALITY WILL BE PROVIDED BY F-95-25
21. STREET TREES FOR PARKING LOT WILL BE INCLUDED IN THE SITE DEVELOPMENT PLAN.
22. ALL REQUIRED LANDSCAPE PLANTING SHALL BE PROVIDED BY THE DEVELOPER ON THE SDP.



- BENCHMARK**
DESCRIPTION
STATION 2643006 (CONCRETE MONUMENT)
ELEV. 437.461 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED ON BG&E TRANSMISSION ON A RISE BETWEEN BG&E TOWERS #14 & #14-E 792' N.E. OF DOBBIN RD.
- BENCHMARK**
DESCRIPTION
STATION 2542001 (CONCRETE MONUMENT)
ELEV. 426.971 (FOR VERTICAL CONTROL ONLY)
STATION IS LOCATED ON BG&E TRANSMISSION LINES 1060' S.W. OF DOBBIN ROAD
- BENCHMARK**
DESCRIPTION
STATION 3614 (CONCRETE MONUMENT)
N 555136.4431, E 1365855.2470 (FOR HORIZONTAL CONTROL ONLY)
STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF SNOWDEN RIVER PARKWAY AND RTE. 175 3' FROM CURB AND 5.7' FROM GUARDRAIL END
- BENCHMARK**
DESCRIPTION
STATION 370R 11/4" REBAR)
N 557351.8360, E 1366685.9660 (FOR HORIZONTAL CONTROL ONLY)
STATION IS LOCATED 0.45+ MILES NORTH OF RTE. 175 AND 46' EAST OF THE EAST CURB OF SNOWDEN RIVER PARKWAY

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Howard Shih for 6/2/96
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Richard Blood 10/8/96
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

Debra J. Amerson 7/7/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH
SECTION 4 AREA 2

OWNER / DEVELOPER:
ENTERPRISE HOUSING CORPORATION OF MARYLAND, INC.
10227 WINCOPEN CIRCLE
SUITE 810
COLUMBIA, MD 21044

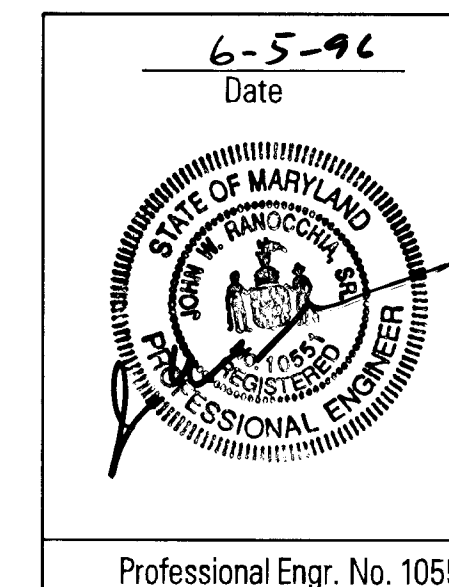
DMC
Daft McCune Walker, Inc.
300 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax: 296-4705

A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals

AREA: SEC 4, AREA 2, A1-A61
TAX MAP 37 PARCEL A
6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE: COVER SHEET

Des By	RWS	Scale	1" = 50'	Proj. No.	94004
Drn By	CEV	Date	JUNE 96		
Chk By	JWR	Approved			1 OF 7

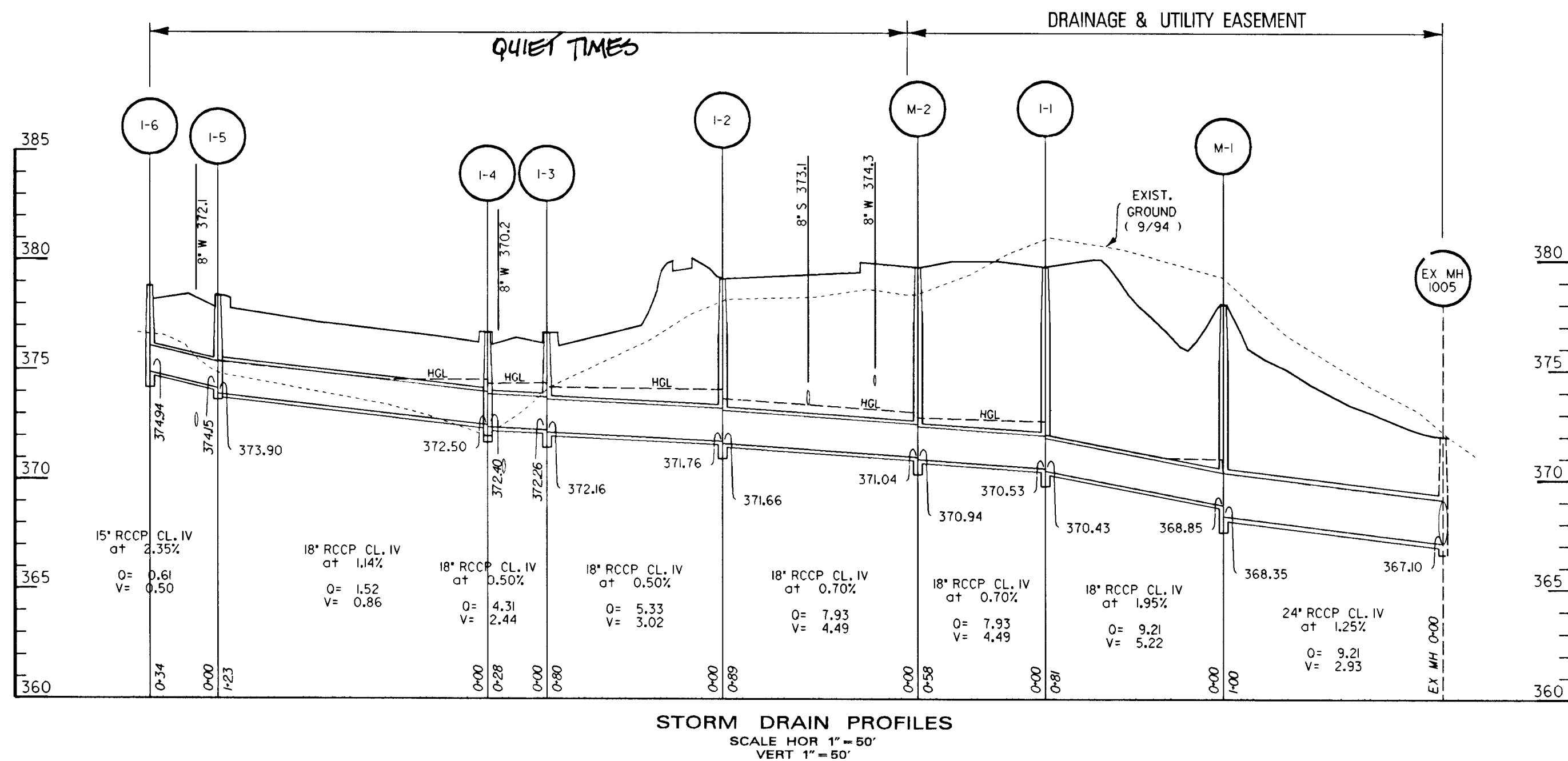


SHEET INDEX	
NO.	PLAN
1 OF 7	COVER SHEET
2 OF 7	ROAD CONSTRUCTION PLAN & PROFILE
3 OF 7	STORM DRAIN PROFILES & ROAD DETAILS
4 OF 7	DRAINAGE AREA MAP & SOILS MAP
5 OF 7	MASS GRADING PLAN
6 OF 7	EROSION & SEDIMENT CONTROL PLAN
7 OF 7	SEDIMENT CONTROL DETAILS

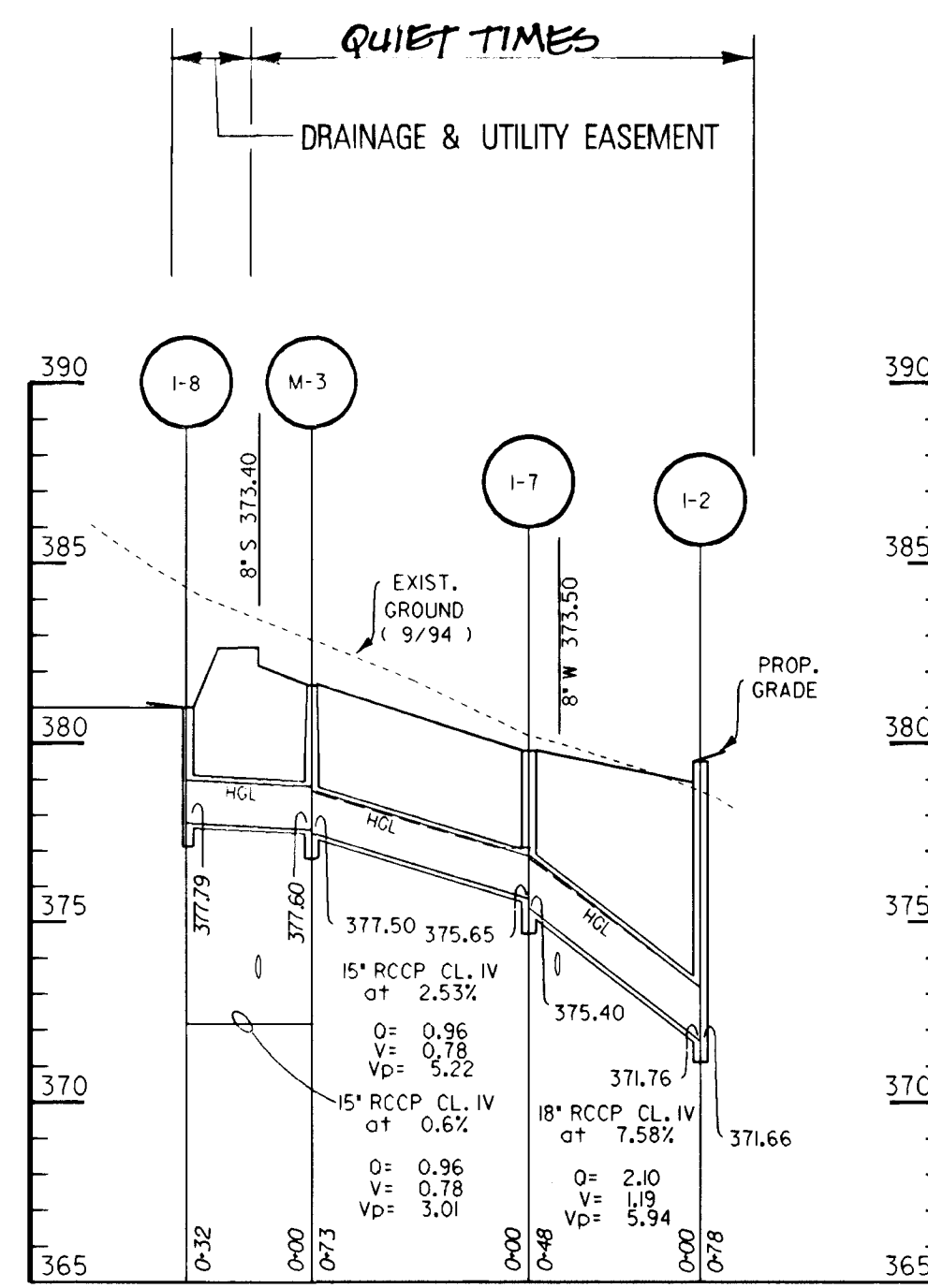
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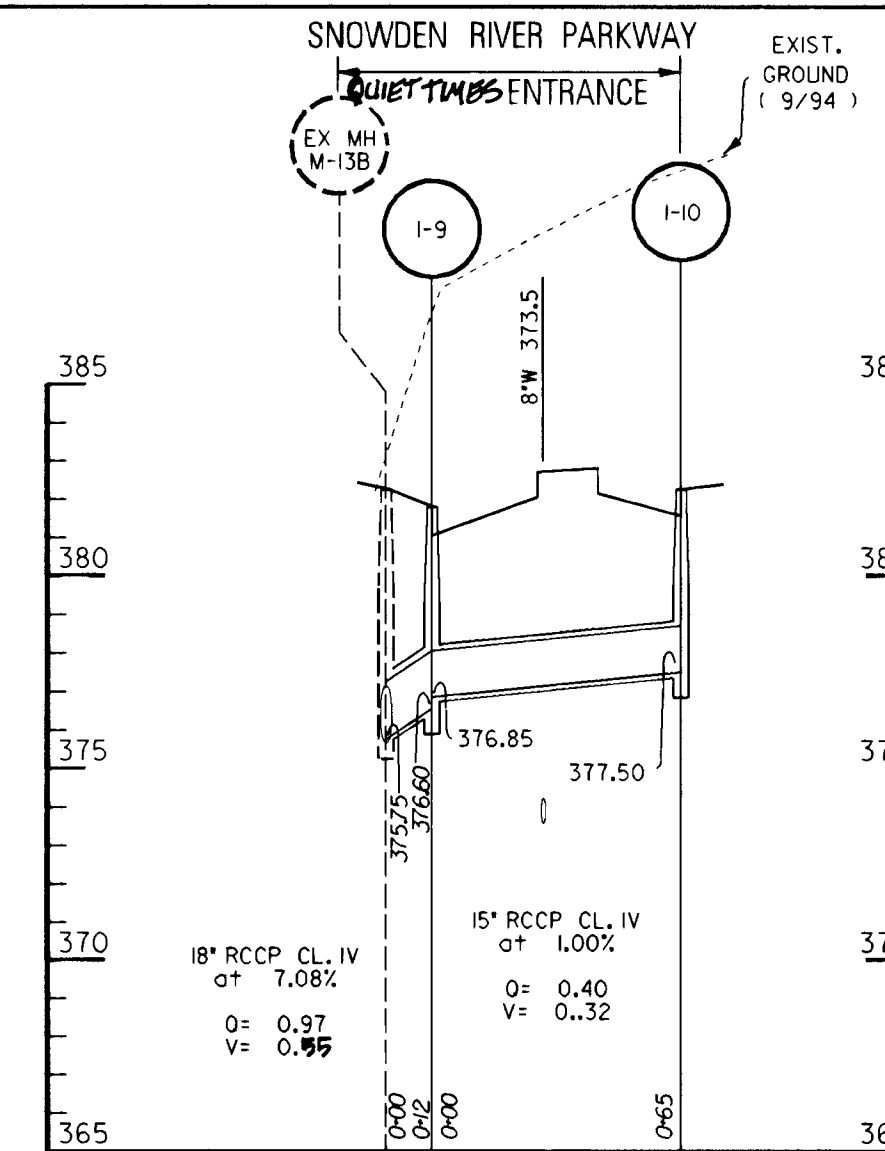
F.96.86



STORM DRAIN PROFILES
SCALE HOR 1" = 50'
VERT 1" = 50'



STORM DRAIN PROFILES
SCALE HOR 1" = 50'
VERT 1" = 50'



STORM DRAIN PROFILES
SCALE HOR 1" = 50'
VERT 1" = 50'

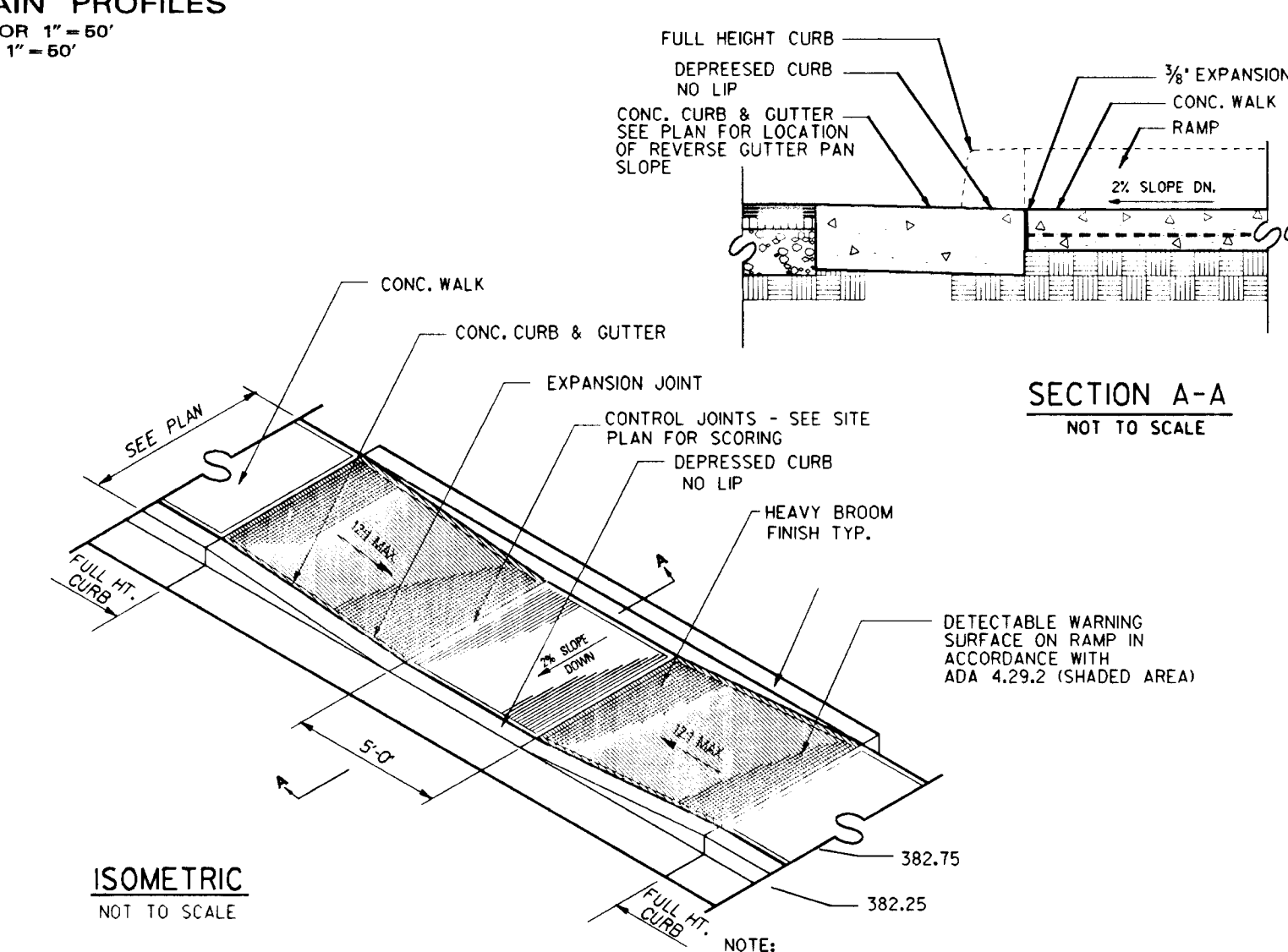
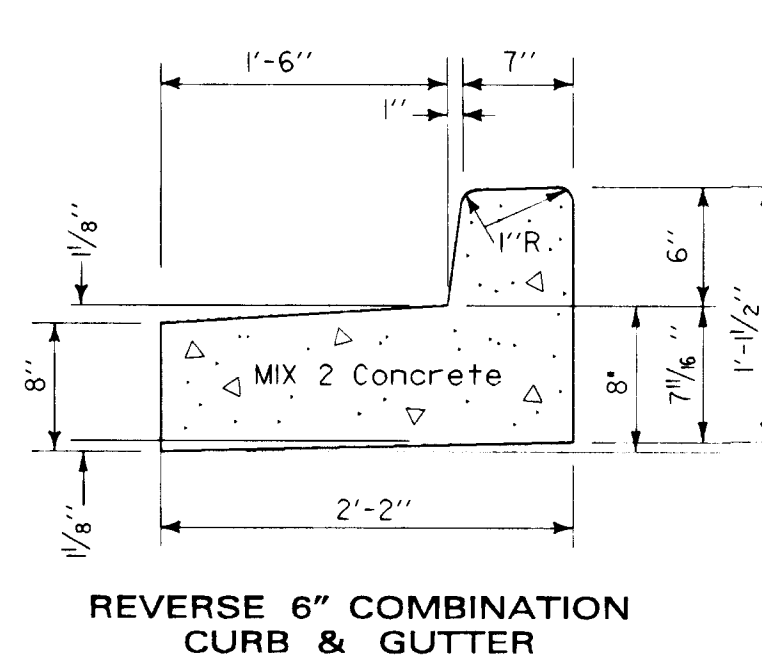
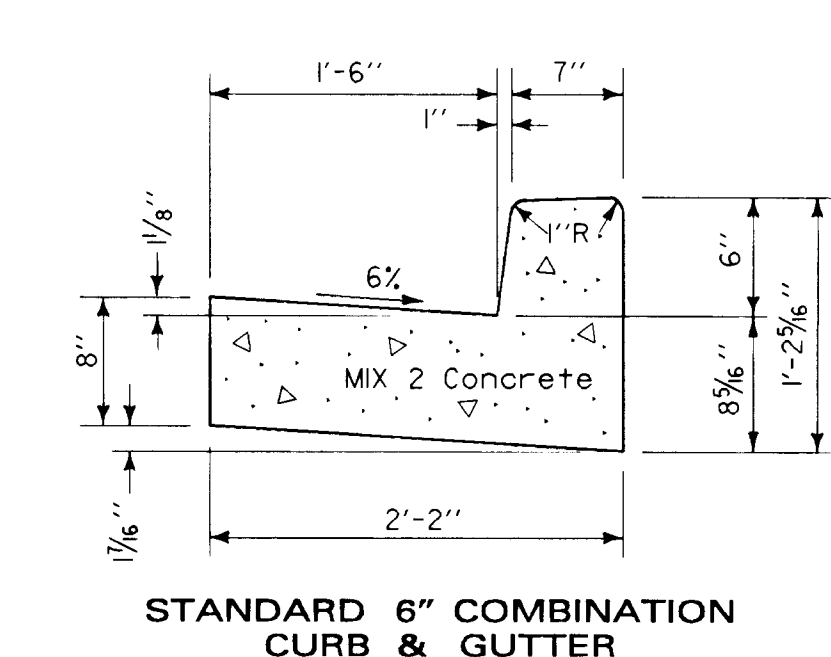
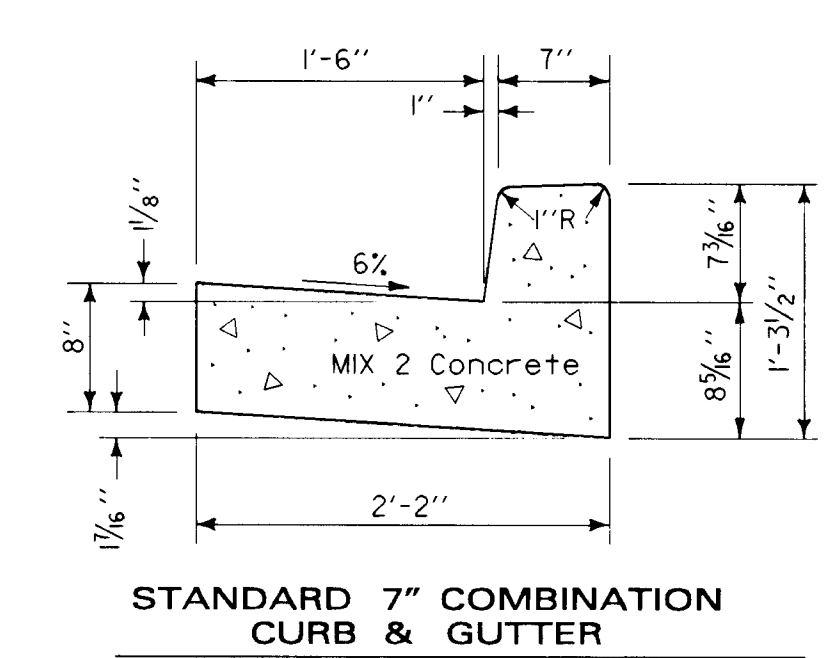
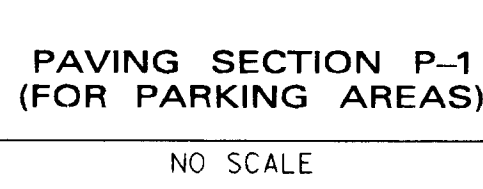
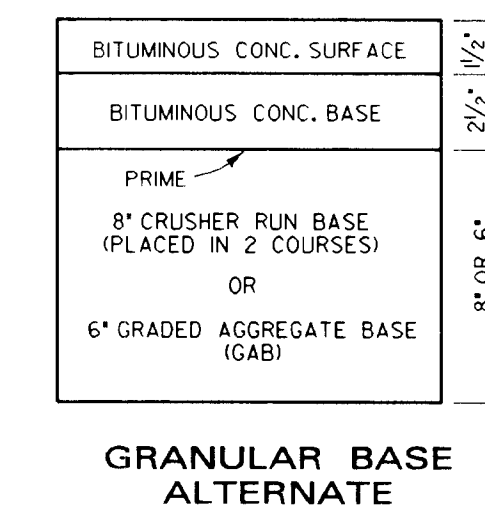
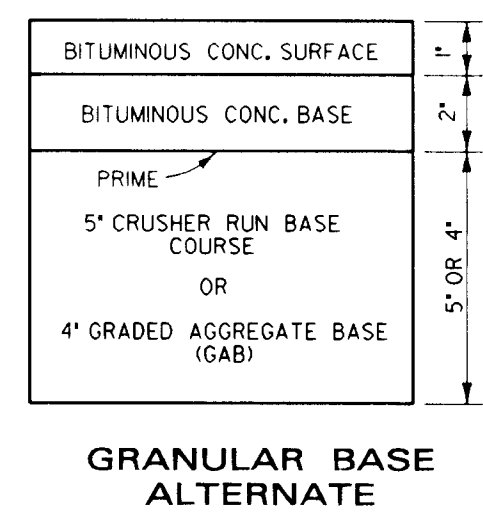
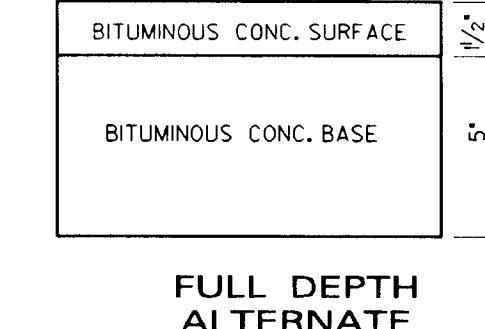
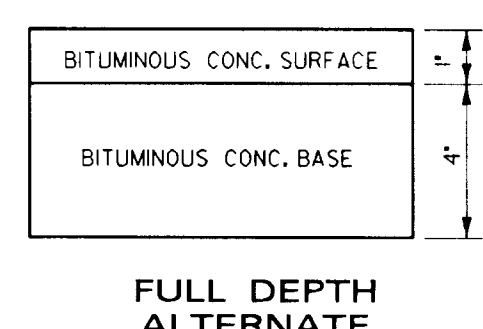
MANHOLE SCHEDULE

NO.	TYPE	INV. OUT	TOP ELEV.	DETAIL NO.	LOCATION
1	4' SHALLOW	368.35	378.00	HO CO G 5J2	N 558787.87, E 1367674.71
2	4' STANDARD	370.94	378.10	HO CO G 5J2	N 558844.75, E 1367673.29
3	4' STANDARD	377.50	381.74	HO CO G 5J2	E STA 3+03.4 RT 14.9'

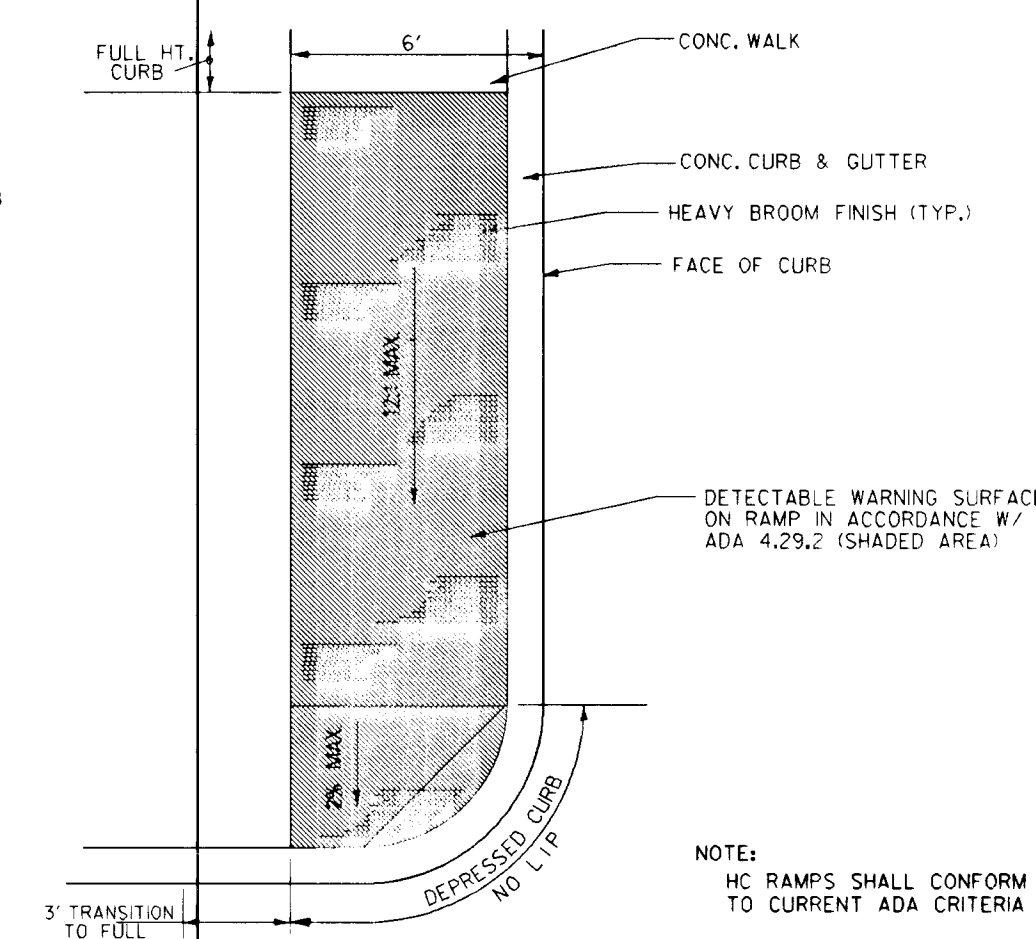
INLET SCHEDULE

NO.	TYPE	Q	INV. OUT	TOP ELEV.	DETAIL	LOCATION
1	S-GRATE	LUB	370.43	379.70	HO CO SD 4.22	N 558787.87 E 1367334.41
2	A-5	0.63	371.66	379.80	SD 4.01/4.40	CL STA 4+21.6
3	A-5	0.93	372.16	376.81	SD 4.01/4.40	CL STA 5+71.8
4	A-5	3.53	372.40	376.81	SD 4.01/4.40	CL STA 5+71.8
5	A-5	1.41	373.90	378.41	SD 4.01/4.40	CL STA 6+89.00
6	A-5	0.72	374.94	378.61	SD 4.01/4.40	CL STA 7+04.5
7	A-5	1.29	375.40	380.09	SD 4.01/4.40	CL STA 3+76.5
8	S-GRATE	0.96	377.79	381.00	HO CO SD 4.22	CL STA 0+64.0
9	A-5	0.97	376.60	382.34	SD 4.01/4.40	CL STA 0+64.0
10	A-5	0.40	377.50	382.50	SD 4.01/4.40	CL STA 0+71.0

* NOTE: ELEVATION REPRESENT TOP OF CURB @ HEADPIECE FOR A-5 & A-10 INLETS

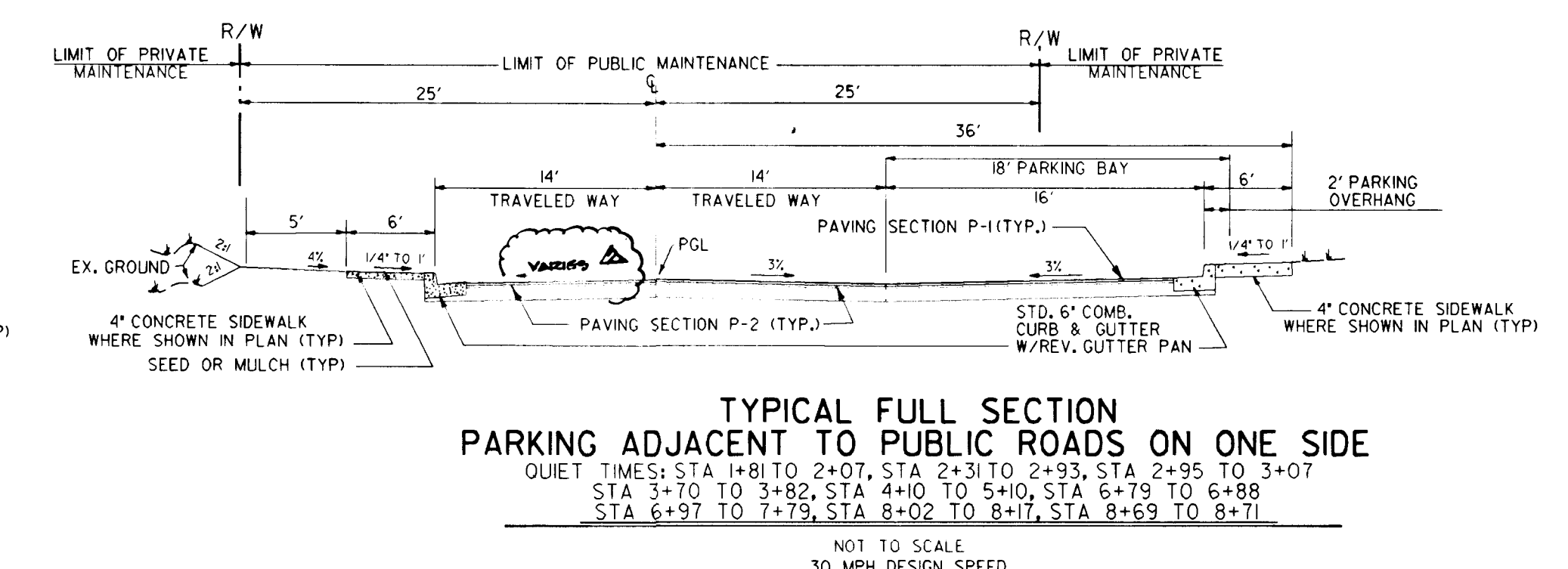
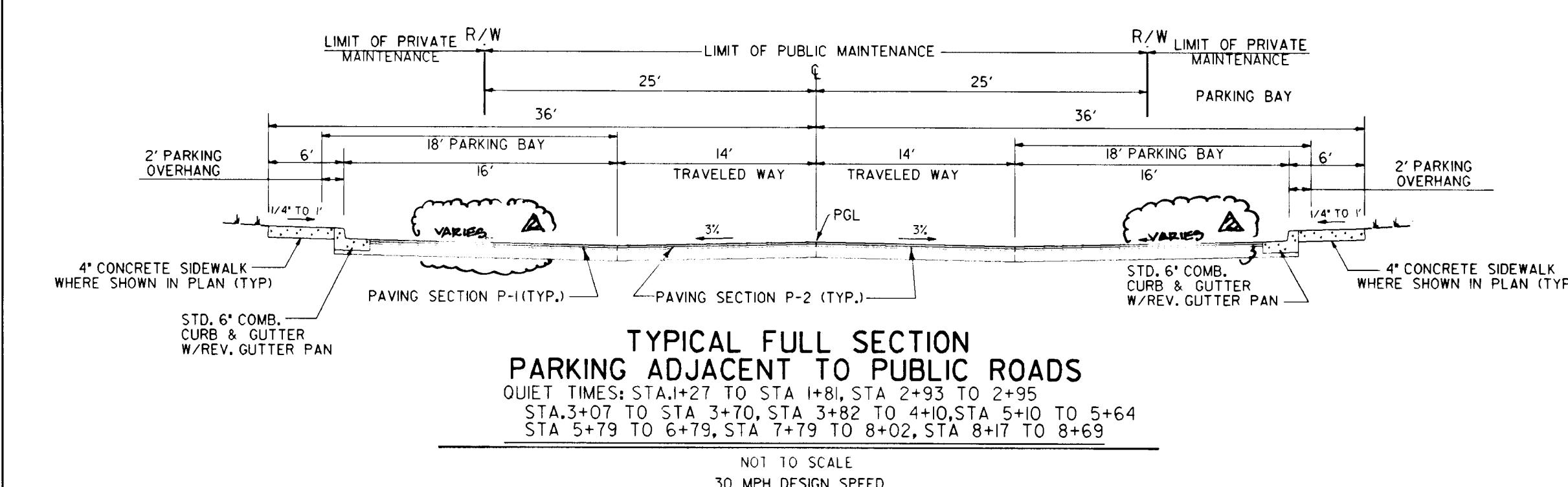
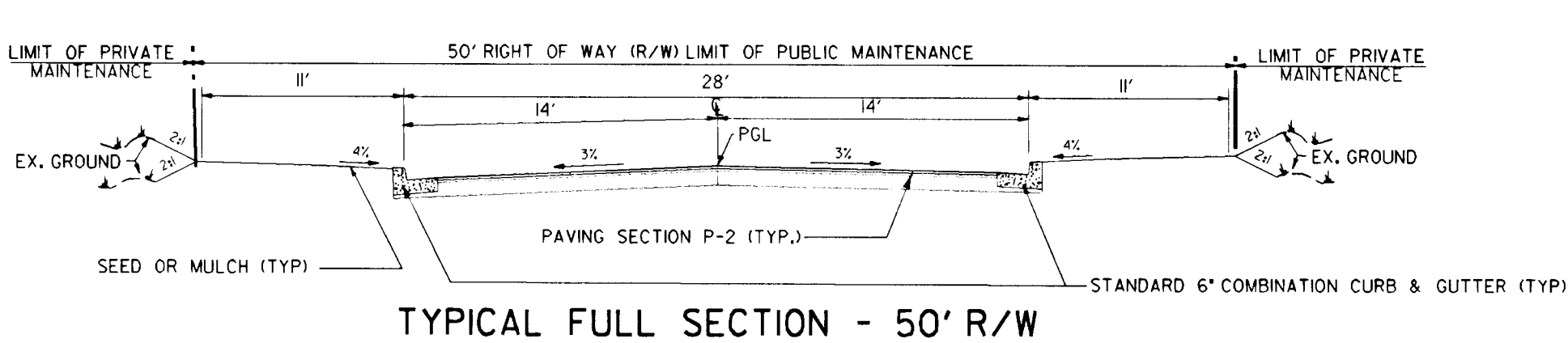


HANDICAPPED RAMP TYPE II
NOT TO SCALE



HANDICAPPED RAMP TYPE III
NOT TO SCALE

NOTE: THE PAVING SECTION IS BASED ON OBTAINING AN ACCEPTABLE 'C' BR' VALUE. THE GEO-TECHNICAL ENGINEER HAS THE OPTION OF RECOMMENDING AN ALTERNATE SECTION IF THE SOILS TEST WARRANTS SUCH.

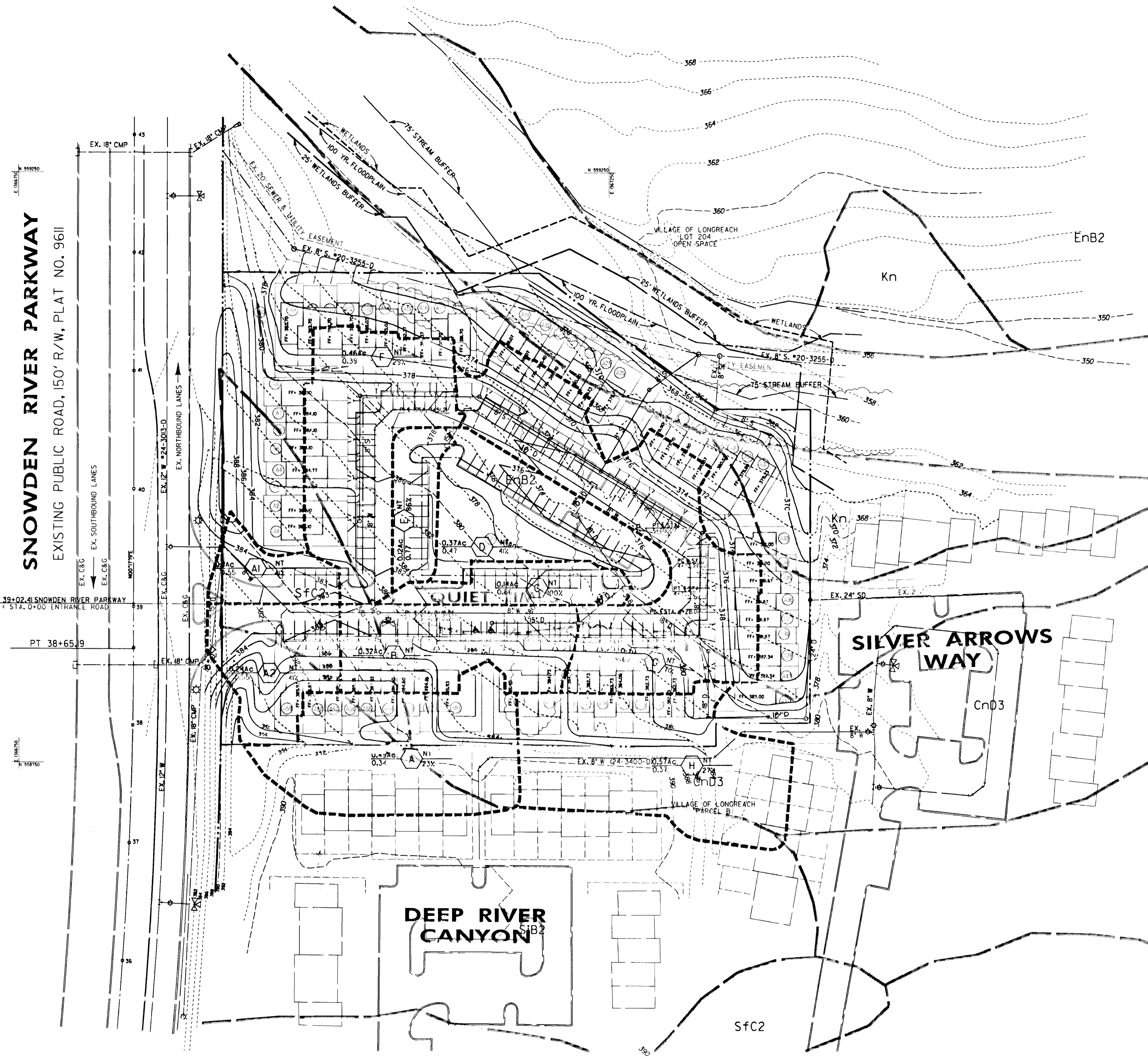


APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Howard Shil 6/17/96
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Richard Blood 10/18/96
 CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

William M. K. 7/17/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

2-10-97 1 REVISE STORM DRAIN PROFILE I-9 TO MH-1112-B
 6-16-97 2 Rev. M.B.I.E. I-7, I-9, I-10, I-11, I-12, I-13, I-14, I-15, I-16, I-17, I-18, I-19, I-20, I-21, I-22, I-23, I-24, I-25, I-26, I-27, I-28, I-29, I-30, I-31, I-32, I-33, I-34, I-35, I-36, I-37, I-38, I-39, I-40, I-41, I-42, I-43, I-44, I-45, I-46, I-47, I-48, I-49, I-50, I-51, I-52, I-53, I-54, I-55, I-56, I-57, I-58, I-59, I-60, I-61, I-62, I-63, I-64, I-65, I-66, I-67, I-68, I-69, I-70, I-71, I-72, I-73, I-74, I-75, I-76, I-77, I-78, I-79, I-80, I-81, I-82, I-83, I-84, I-85, I-86, I-87, I-88, I-89, I-90, I-91, I-92, I-93, I-94, I-95, I-96, I-97, I-98, I-99, I-100, I-101, I-102, I-103, I-104, I-105, I-106, I-107, I-108, I-109, I-110, I-111, I-112, I-113, I-114, I-115, I-116, I-117, I-118, I-119, I-120, I-121, I-122, I-123, I-124, I-125, I-126, I-127, I-128, I-129, I-130, I-131, I-132, I-133, I-134, I-135, I-136, I-137, I-138, I-139, I-140, I-141, I-142, I-143, I-144, I-145, I-146, I-147, I-148, I-149, I-150, I-151, I-152, I-153, I-154, I-155, I-156, I-157, I-158, I-159, I-160, I-161, I-162, I-163, 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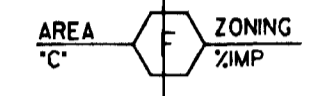


SNOWDEN RIVER PARKWAY
EXISTING PUBLIC ROAD, 150' R/W, PLAT NO. 9611

STA. 39+02 @ SNOWDEN RIVER PARKWAY
STA. 0+00 @ ENTRANCE ROAD

PT 38+65.9

- LEGEND**
- EXISTING TREE LINE
 - - - - - LIMIT OF WETLANDS
 - - - - - 25' WETLANDS BUFFER
 - - - - - 100 YEAR FLOODPLAIN
 - - - - - 75' STREAM BUFFER
 - - - - - DRAINAGE DIVIDE



NOTE:
FOR ALL GRADING SEE SHEET 5 OF 7
(MASS GRADING PLAN)

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Howard Shild 6/17/96
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Richard Blood 7/17/96
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

John Wommersley 7/17/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

Date	No.	Revision Description
	1	REMOVE STORM DRAIN SIZES.

VILLAGE OF LONGREACH
SECTION 4 AREA 2

OWNER / DEVELOPER:
ENTERPRISE HOUSING CORPORATION OF MARYLAND, INC.
10227 WINCOPEN CIRCLE
SUITE 810
COLUMBIA, MD 21044

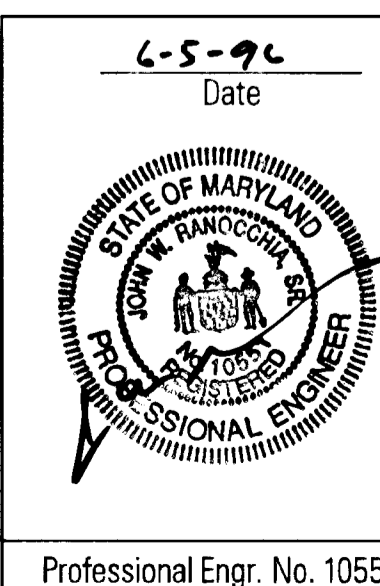
DWMA
Dan McCune-Walker, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax: 296-4705

A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals

SECTION 4, AREA 2, A1-A61
TAX MAP 37 PARCEL A
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CENSUS TRACT PARCEL A ZONE

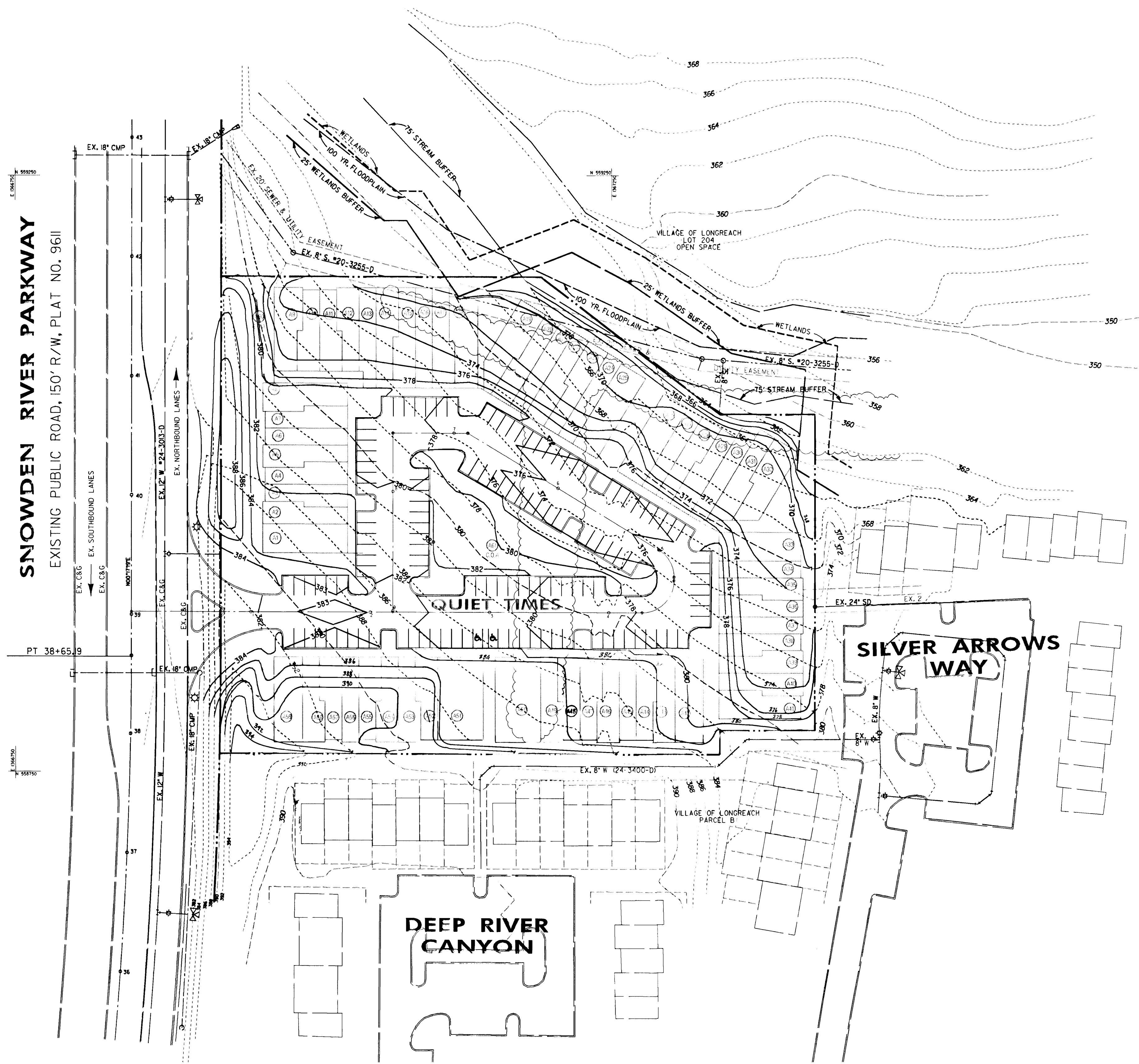
DRAINAGE AREA MAP & SOILS MAP

Des By	RWS	Scale	1" = 50'	Proj. No.	94004
Drn By	NB	Date	JULY 95		
Chk By	JWVR	Approved			4 OF 7



Professional Engr. No. 10551

SNOWDEN RIVER PARKWAY
EXISTING PUBLIC ROAD, 150' R/W, PLAT NO. 9611



- LEGEND**
- - - - - EXISTING TREE LINE
 - - - - - LIMIT OF WETLANDS
 - - - - - 25' WETLANDS BUFFER
 - - - - - 100 YEAR FLOODPLAIN
 - - - - - 75' STREAM BUFFER
 - - - - - DRAINAGE DIVIDE

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Howard Schilke 6-17-96
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Richard Blood 10/18/96
 CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH, J.A. DATE

Cheryl Summers 7/17/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION, M.K. DATE

Date	No.	Revision Description

VILLAGE OF LONGREACH
SECTION 4 AREA 2

OWNER /DEVELOPER:
 ENTERPRISE HOUSING CORPORATION OF MARYLAND, INC.
 10227 WINCOPEN CIRCLE
 SUITE 810
 COLUMBIA, MD 21044

DMC
 Daft McCune Walker, Inc.
 200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4706

A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

AREA SEC 4, AREA2, A1-A61
 TAX MAP 37 PARCEL A
 6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE **MASS GRADING PLAN**

Des By	RWS	Scale	1" = 50'	Proj. No.	94004
Drn By	CEV	Date	JUNE 96		
Chk By	JWR	Approved			5 OF 7

6-5-96
Date

Professional Engr. No. 10551

F. 96.86

100

SEEDING NOTES

Permanent Seeding Notes
 Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Soil Preparation - Loosen upper 3 inches of soil by raking, disk, or other acceptable means before seeding, if not previously loosened.
Soil Amendments - In lieu of soil test recommendations, use one of the following schedules:
 1. **Establishment** - Apply 2 tons per acre dolomitic limestone (92 lbs./1,000 sq. ft.) and 1,000 lbs. per acre 0-10-10 fertilizer (14 lbs./1,000 sq. ft.) before seeding. Harrow or disk into upper 3 inches of soil.
 2. **Association** - Apply 2 tons per acre dolomitic limestone (92 lbs./1,000 sq. ft.) and 1,000 lbs. per acre 0-10-10 fertilizer (14 lbs./1,000 sq. ft.) before seeding. Harrow or disk into upper 3 inches of soil.
Seeding - For the periods March 1 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (4 lbs./1,000 sq. ft.) Kentucky 3 tall fescue. For the period May 1 through July 31, seed with 60 lbs. per acre of Kentucky 3 tall fescue per acre and 2 lbs. per acre 100% pure red clover. For the period August 1 through October 15, seed with 60 lbs. per acre of Kentucky 3 tall fescue per acre and 2 lbs. per acre of winter annual rye. For the period February 28 through April 30, seed with 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring. Option (B) - Use seed option (1). Seed with 60 lbs./acre Kentucky 3 tall fescue and mulch with 2 tons/acre well-rotted straw.
Mulching - Apply 1 1/2 to 2 tons per acre (10 to 15 lbs./1,000 sq. ft.) of untreated amalgam straw immediately after seeding. Another mulch immediately after application using mulch anchoring tool or 28 gallons per acre (15 gal./1,000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (18 gal./100 sq. ft.) for anchoring.
Maintenance - Inspect seeding area and make needed repairs, replacements and reseeding.

Temporary Seeding Notes
 Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
Soil Preparation - Loosen upper 3 inches of soil by raking, disk, or other acceptable means before seeding, if not previously loosened.
Soil Amendments - Apply 600 lbs. per acre 0-10-10 fertilizer (14 lbs./1,000 sq. ft.)
Seeding - For the periods March 1 through April 30, and August 1 through October 15, seed with 1/2 bushel per acre of annual ryegrass (12 lbs./1,000 sq. ft.). For the period May 1 through August 15, seed with 3 lbs. per acre of weeping lovegrass (107 lbs./1,000 sq. ft.). For the period November 16 through February 28, protect site by applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring. Option (B) - Use seed option (1). Seed with 60 lbs./acre Kentucky 3 tall fescue and mulch with 2 tons/acre well-rotted straw.
Mulching - Apply 1 1/2 to 2 tons per acre (10 to 15 lbs./1,000 sq. ft.) of untreated amalgam straw immediately after seeding. Another mulch immediately after application using mulch anchoring tool or 28 gallons per acre (15 gal./1,000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (18 gal./100 sq. ft.) for anchoring.
 Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for additional notes and methods not covered.

- Sequence of Construction**
1. Obtain a grading permit. (1 DAY)
 2. Notify the Howard County Office of Inspection and Permits (313-1855) a minimum of 48 hours prior to the start of any construction. (2 DAYS)
 3. Clear and grub for and install sediment and erosion control measures or devices. (1 WEEK)
 4. Stabilize all nonactive graded surfaces with temporary seeding. (1 WEEK)
 5. Mass grade site and begin house construction. (1 YEAR)
 6. Fine grade site. Stabilize all disturbed areas with permanent seeding. (1 MONTH)
 7. With the prior permission of the Sediment Control Inspector and the Howard County Sediment Control Division remove sediment controls. Fine grade and stabilize these areas. (1 WEEK)

DA TO 280' SSF +/-
 AND MOUNTABLE BERM
 EX. = 0.23 AC +/-
 INT. = 0.37 AC +/-
 PROP. = 0.37 AC +/-

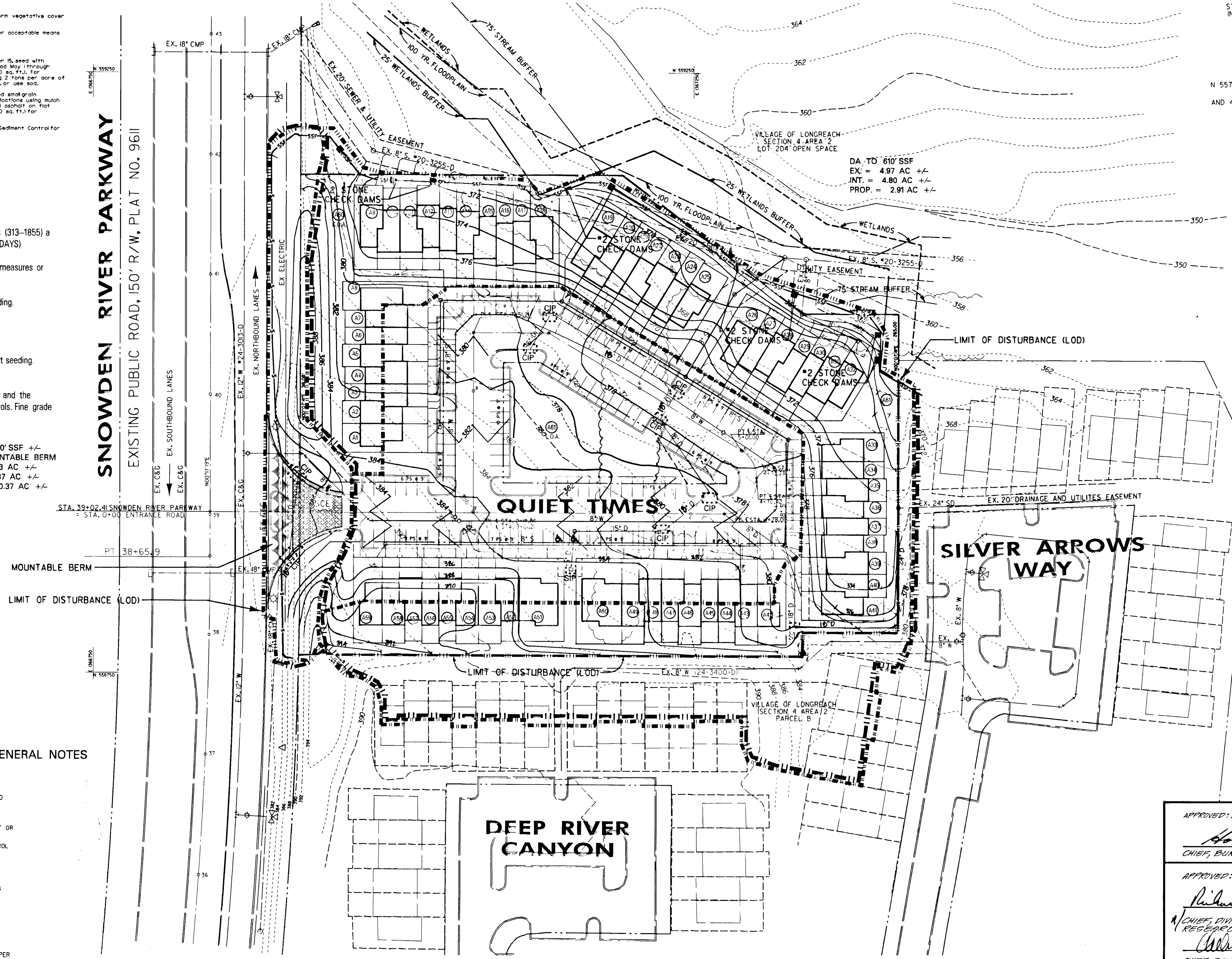
HOWARD COUNTY SEDIMENT CONTROL GENERAL NOTES

1. 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.
2. ALL VEGETATIVE 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.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DYES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - B. FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 15 OF THE HOWARD COUNTY DESIGN MANUAL FOR STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDING, SECTION 54.100 (SECTION 54); TEMPORARY SEEDING, SECTION 50.1 AND MULCHING, SECTION 52.1. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. 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.
7. SITE ANALYSIS:

TOTAL AREA OF SITE	4.15 ACRES
AREA TO BE ROOFED OR PAVED	4.89 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.84 ACRES
TOTAL CUT	14,240 CUBIC YARDS
TOTAL FILL	18,930 CUBIC YARDS

 OFF-SITE WASTE/BORROW AREA LOCATION MUST BE EXCEPTED. CUT WILL BE TAKEN TO A SITE WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN AND AN ACTIVE GRADING PERMIT.
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.
10. 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.

SNOWDEN RIVER PARKWAY
 EXISTING PUBLIC ROAD, 150' R/W, PLAT NO. 9611

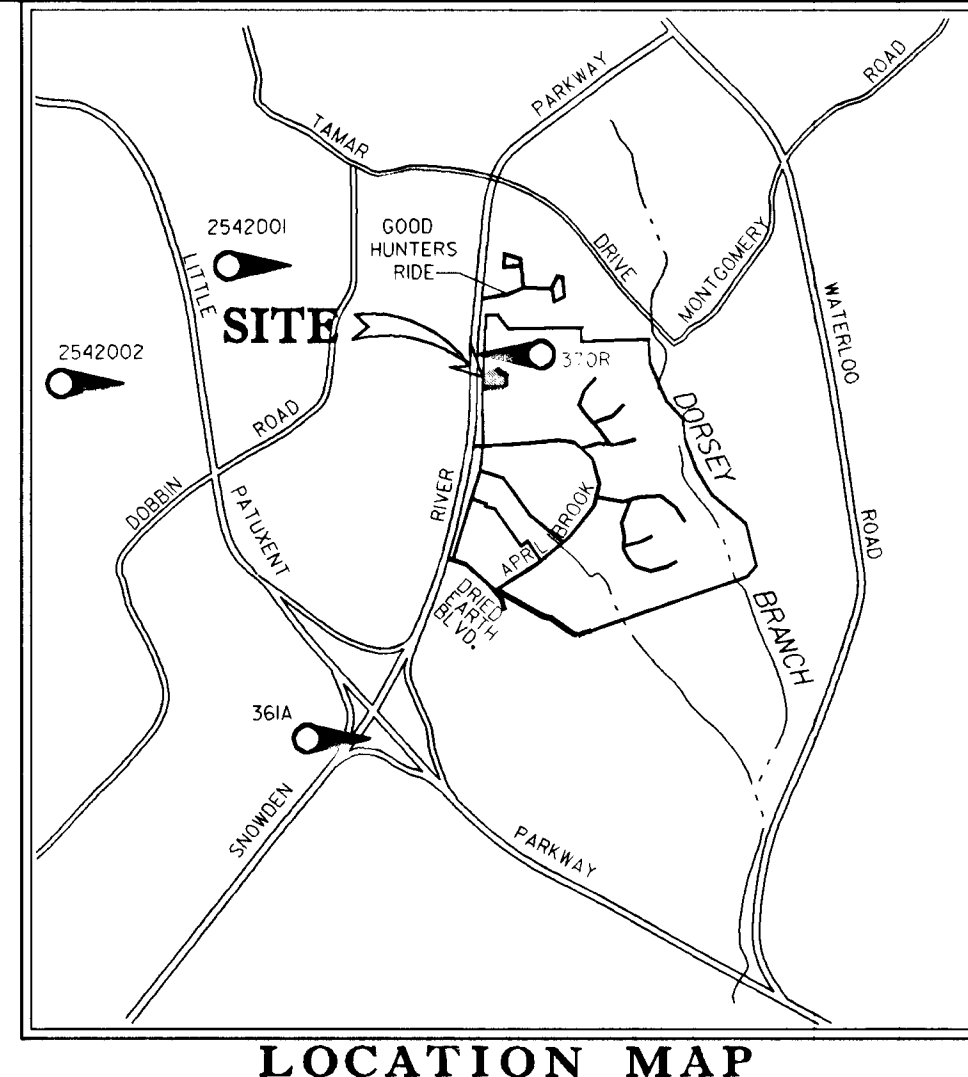


BENCHMARK
 DESCRIPTION
 STATION 2643006 (CONCRETE MONUMENT)
 ELEV. 437.46 (FOR VERTICAL CONTROL ONLY)
 STATION IS LOCATED ON BG&E TRANSMISSION
 ON A RISE BETWEEN BG&E TOWERS #14 & #14-E
 75' + N.E. OF DOBBIN RD.

BENCHMARK
 DESCRIPTION
 STATION 2542001 (CONCRETE MONUMENT)
 ELEV. 426.97 (FOR VERTICAL CONTROL ONLY)
 STATION IS LOCATED ON BG&E TRANSMISSION
 LINES 1060' S.W. OF DOBBIN ROAD

BENCHMARK
 DESCRIPTION
 STATION 361A (CONCRETE MONUMENT)
 N 555136.443, E 1365855.2470 (FOR HORIZONTAL CONTROL ONLY)
 STATION IS LOCATED AT THE SOUTHEAST CORNER OF THE
 INTERSECTION OF SNOWDEN RIVER PARKWAY AND RTE. 175
 5' FROM CURB AND 5.7' FROM GUARDRAIL END

BENCHMARK
 DESCRIPTION
 STATION 37DR (4" REBAR)
 N 557351.8360, E 1366685.9660 (FOR HORIZONTAL CONTROL ONLY)
 STATION IS LOCATED 0.45+ MILES NORTH OF RTE. 175
 AND 46'+ EAST OF THE EAST CURB OF SNOWDEN RIVER PARKWAY



LEGEND

- SILT FENCE
- SUPER SILT FENCE
- #2 STONE CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE
- INTERIM DRAINAGE AREA
- PROPOSED DRAINAGE AREA
- LIMITS OF DISTURBANCE
- EXISTING TREE LINE
- LIMIT OF WETLANDS
- 25' WETLANDS BUFFER
- 100 YR FLOODPLAIN
- 75' STREAM BUFFER
- CURB INLET PROTECTION
- SUMP INLET PROTECTION

NOTE: ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO REMAIN OUTSIDE OF WETLAND AREA STREAM BUFFERS.

FOR ALL GRADING SEE SHEET 5 OF 7 (MASS GRADING PLAN)

AREA OF DISTURBANCE = 204,220 SF = OR 4.69 AC +/-

21047	1	REVISE STORM DRAIN STRIPES.
Date	No.	Revision Description

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Howard S. Shiff for *6-22-96*
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Richard Blood for *10/8/96*
 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING DATE

Charles J. ... for *7/17/96*
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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

J.C. Campbell for *6/14/96*
 SOIL CONSERVATION SERVICE DATE

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

John W. Ramachia, Sr. for *5-20-96*
 HOWARD S.C.D. DATE

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

CERTIFICATION BY THE DEVELOPER:
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT 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."

For: Enterprise Housing Corp. of MD, Inc.
 By: *[Signature]* for *5-21-96*
 DATE

5-20-96
 Date

Professional Engr. No. 10551

VILLAGE OF LONGREACH
 SECTION 4 AREA 2

OWNER / DEVELOPER:
 ENTERPRISE HOUSING CORPORATION OF MARYLAND, INC.
 10277 WINCOPE CIRCLE
 SUITE 810
 COLUMBIA, MD 21044

DMTA
 Dan McCune-Walker, Inc.
 800 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 286-3820
 Fax 286-4705

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

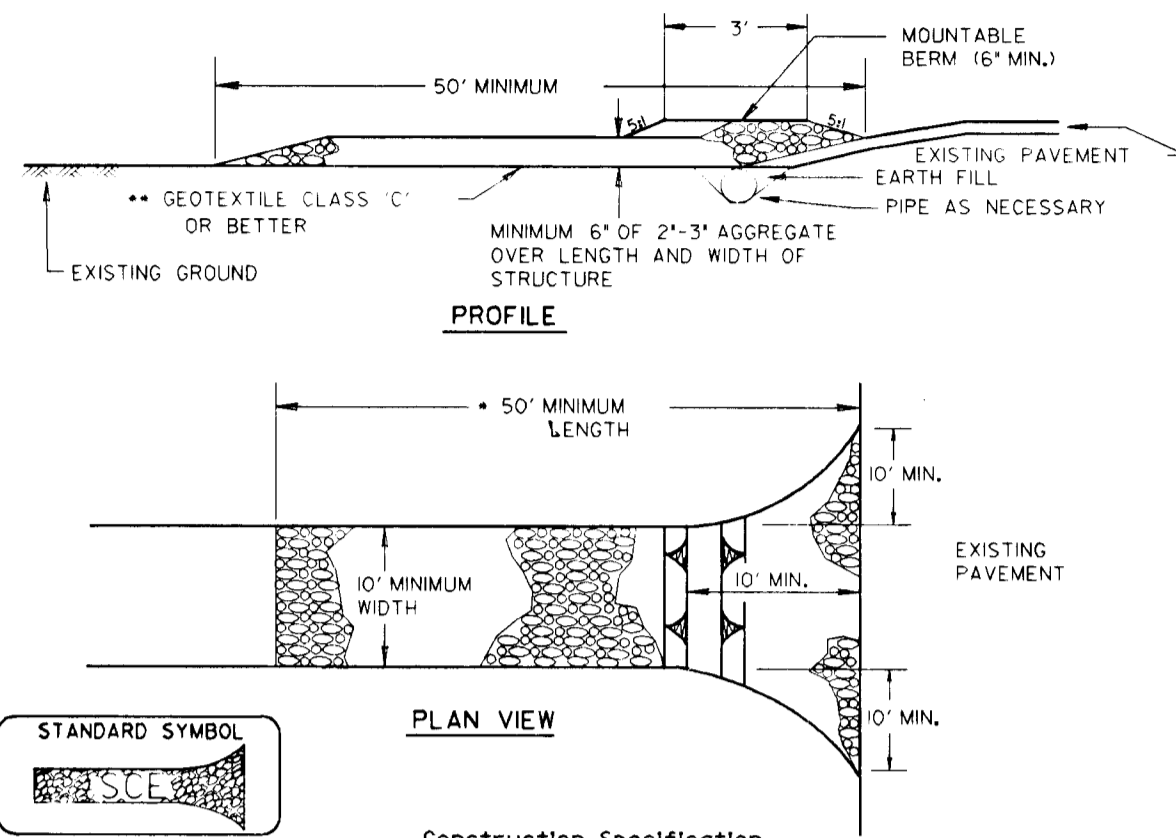
SECTION 4, AREA 2, A1-A61
 TAX MAP 37 PARCELS A
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 CENSUS TRACT

TITLE
EROSION AND SEDIMENT CONTROL PLAN

Des By	CRW	Scale	1" = 50'	Proj. No.	94004
Drn By	RTP	Date	DEC 1995		
Chk By	JWR	Approved			6 OF 7

100

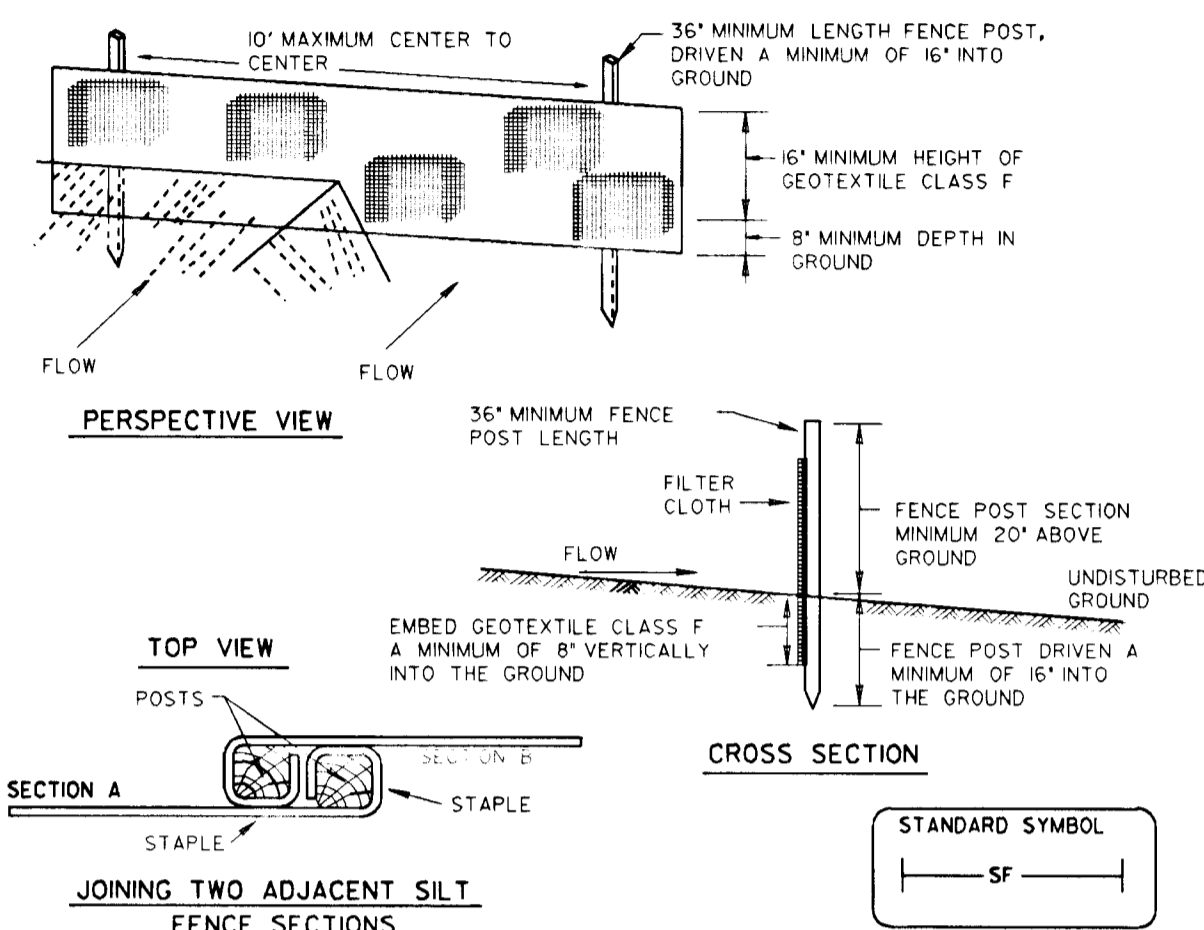
F.9.6.B6



- Construction Specifications
- Length - minimum of 50' (+30' for single residence lots).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3" or reclaimed or recycled concrete equivalent) shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE



- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1/2" x 1/2" square, minimum cut, or 1 1/2" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 100 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
 - Tensile Strength 50 lbs/in (min.) Test: MSMT 509
 - Tensile Modulus 20 lbs/in (min.) Test: MSMT 509
 - Flow Rate 0.3 gal/ft / minute (max.) Test: MSMT 322
 - Filtering Efficiency 75% (min.) Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SILT FENCE NOT TO SCALE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10d	Unlimited	Unlimited
10 - 20%	10d - 5d	200 feet	1,500 feet
20 - 33%	5d - 3d	100 feet	1,000 feet
33 - 50%	3d - 2d	100 feet	500 feet
50% +	2d +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H-26-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SUPER SILT FENCE NOT TO SCALE

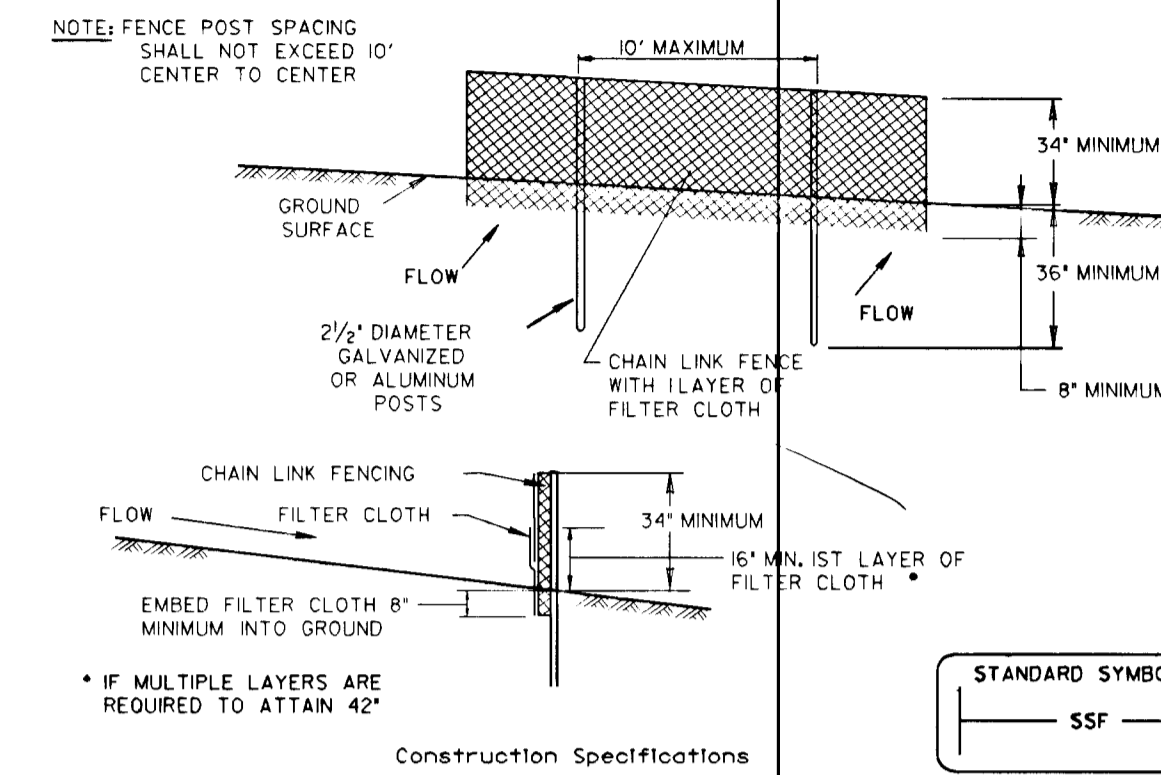
Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50d	unlimited	unlimited
50d to 10d	125 feet	1,000 feet
10d to 5d	100 feet	750 feet
5d to 3d	60 feet	500 feet
3d to 2d	40 feet	250 feet
2d and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE E-16-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SILT FENCE NOT TO SCALE



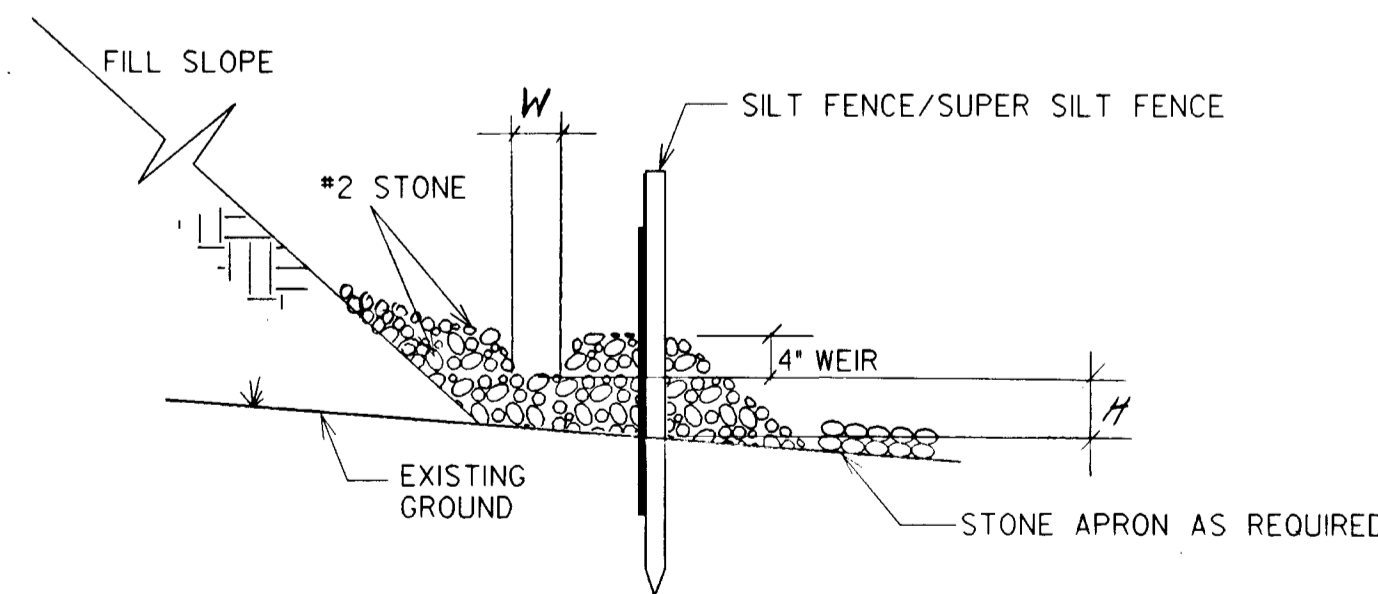
- Construction Specifications
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
 - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and silt bulges removed when 'bulges' develop in the silt fence, or when silt reaches 50% of fence height.
 - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
 - Tensile Strength 50 lbs/in (min.) Test: MSMT 509
 - Tensile Modulus 20 lbs/in (min.) Test: MSMT 509
 - Flow Rate 0.3 gal/ft / minute (max.) Test: MSMT 322
 - Filtering Efficiency 75% (min.) Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H-26-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

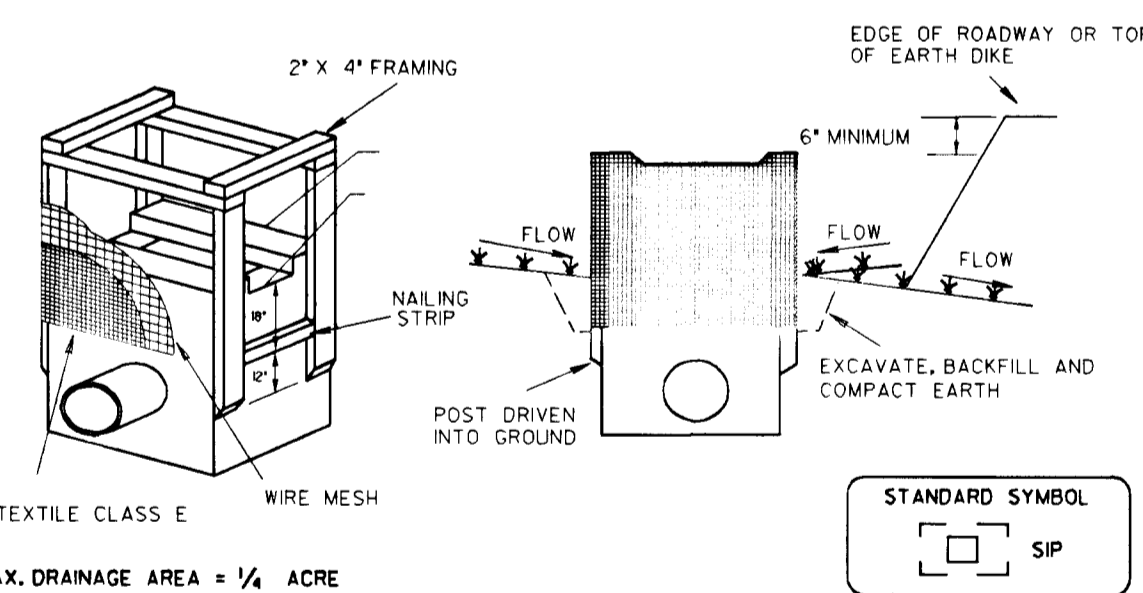
SUPER SILT FENCE NOT TO SCALE

DIMENSION	STD. SILT FENCE	SUPER SILT FENCE
	#2 STONE	#2 STONE
H	12" HIGH	24" HIGH
W	24" WIDE	36" WIDE
S	15' 50" 100' O.C.	30' 50" 100' O.C.

OR 4" MAX. VERTICAL CHANGE IN ELEV.



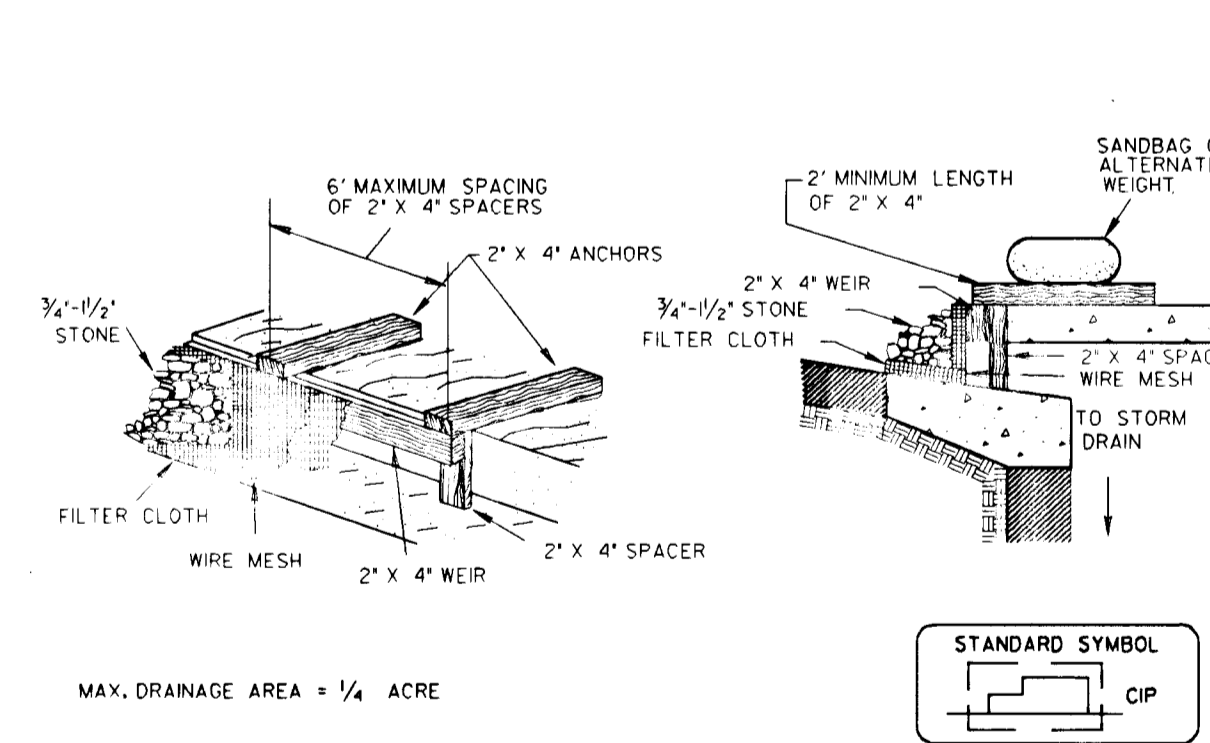
LIMITED USE WHERE SILT FENCE DOESN'T FOLLOW CONTOURS



- 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 nailstrips 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 (weir) 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.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE E-16-5 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STANDARD INLET PROTECTION NOT TO SCALE



- Construction Specifications
- Attach a continuous piece of wire mesh (30" minimum 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 continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2' x 4' weir.
 - Securely nail the 2' x 4' weir to a 9" long vertical spacer to be located between the weir and the Inlet face (max. 4' 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 1/2' x 1/2' wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the Inlet. Place clean 1/2' x 1/2' stone over the wire mesh and geotextile in such a manner to prevent water from entering the Inlet under or around the geotextile.
 - 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 the Inlet by installing a temporary earth or asphalt dike to direct the flow to the Inlet.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE E-16-5B MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

CURB INLET PROTECTION (COG OR COS INLETS) NOT TO SCALE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 D.G. Wajid 4/1/96
 U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DISTRICT OFFICE
 HOWARD COUNTY, MARYLAND
 DATE

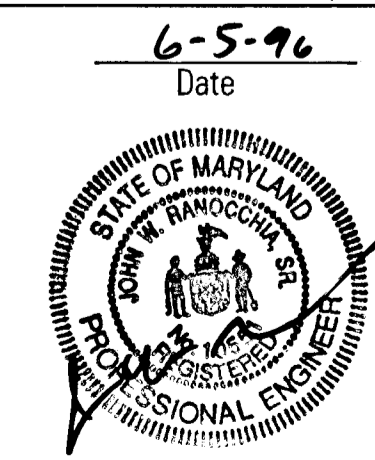
APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
 HOWARD SHANKS
 CHIEF, BUREAU OF HIGHWAYS
 DATE 6-17-96

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 RICHARD BLOOD
 CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH
 DATE 6/18/96

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 WALTER WILSON
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 7/12/96

CERTIFICATION BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 J. W. Kanoschke, Sr.
 DATE 6-5-96

CERTIFICATION BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT 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.
 For: Enterprise Housing Corp. of MD, Inc.
 By: [Signature]
 DATE 5-21-96



Professional Engr. No. 10551

VILLAGE OF LONGREACH
 SECTION 4 AREA 2
 OWNER / DEVELOPER:
 ENTERPRISE HOUSING CORPORATION OF MARYLAND, INC.
 10227 WINCOPEN CIRCLE
 SUITE 810
 COLUMBIA, MD 21044

DMAP
 Draft-McCune-Walker, Inc.
 200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 286-3333
 Fax 286-4706
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

AREA SEC 4, AREA 2, A1-A61
 TAX MAP 37
 8th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

TITLE SEDIMENT CONTROL DETAILS

Des By	Scale 1" = 50'	Proj No. 94004
Dm By RTP	Date June 96	
Chk By JWR	Approved	7 OF 7