

GENERAL NOTES

<u>PART I</u>

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY, ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S DATA.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED W WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATEDBY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

STATE HIGHWAY ADMINISTRATION	531-5533
B.G.&E. CO. CONTRACTOR SERVICES	850-4620
B.G.&E CO. UNDER GROUND DAMAGE CONTROL	787-9068
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	313-4900
BUREAU OF UTILITIES	

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR
- 10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.

N 559,255.308 E 1,344,683.964

THE LET LIST.

San ಅಂತೀರ 4 **ಅಂ**'

San Gard & Sa

58n. Examle 112

4 FUC

- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD FOR LAYING SEWER HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- 12. COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 35C5 AND NO. 0025.

FRUM:

MH 102

MH 8413

4 VALVE

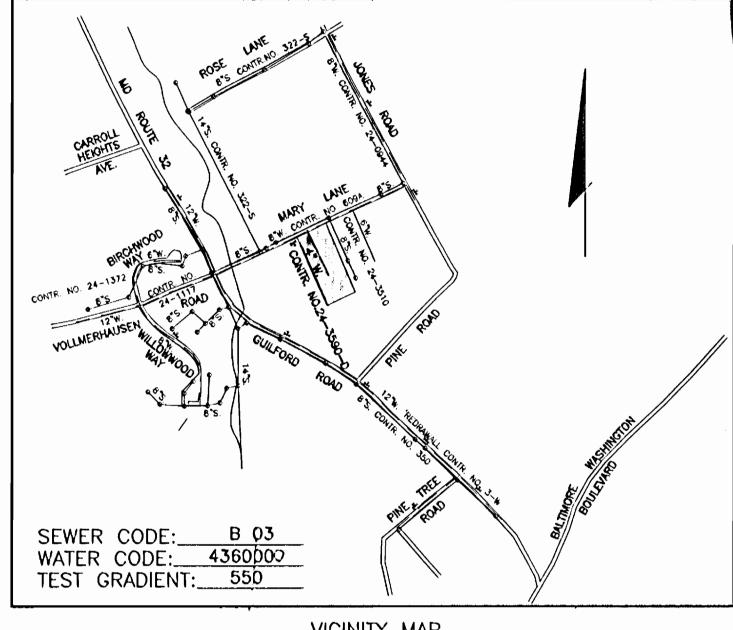
PART II - WATER

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 5. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 6. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

BENCHMARKS:

- 1 HOWARD COUNTY CONTROL NO. 47C4 N. 539,645.6687 E. 1,361,379.3637, ELEV.=288.84
- 2 HOWARD COUNTY CONTROL NO. 47R1 N. 539,734.8050 E. 1,363,098.8714, ELEV.=282.44

TYPE OF BUILDING:	SINGLE FAMILY DETACHED
NO. OF LOTS/PARCELS:	6
NO. OF WATER HOUSE CONNECTIONS:	6
NO. OF SEWER HOUSE CONNECTIONS:	6
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT



VICINITY MAP SCALE: 1"=600"

P.V.C.

d-M Manufacturing Co.

ANY CTIONS.		SEWER CONNECTION TABULATION			
WITH ITY CODE.		LOT NO.	ELEV. @ MAIN	ELEV. @ LOT/R.O.W.	
		1	232.62	233.44	
		2	235.06	235.80	
		3	235.34	236.08	
		4	244.58	244.78	
		5	244.35	244.55	
WATER	AS-BUILT	6	236.88	237.72	

C.5.Wt 3

3/4" W.H.C.	74 L.F.	90	LF.	K Copper	Reading Tube
" CAP & BUTTRESS	1 EA.	1	Ea.	D1F.	Union toundry
8"x4" T.S. & V.	1 EA.	1	La.	test / astc From / valve	Metaller Co.
4" WATER MAIN	279 LF	279	LF.	410	Atlantic States
ITEMS	QUANTITIES	QUANTI	ITIES	TYPE	MANUFACTURER/SUPPLIER
HEMIS			AS-I	BUILT	
QUANTITIES					

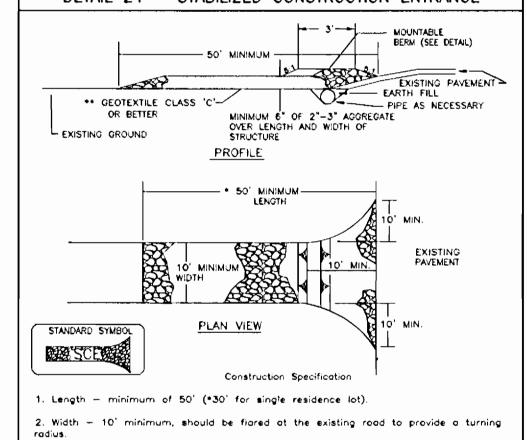
WOWNIIII

181 L#

NAME OF UTILITY CONTRACTOR K.L. Cook Conctr. Inc. SURVEY AND DRAFTING DIVISION AS-BUILT DATE 11-19-97

141 L.F.

4" SHC



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

FROM:

My BAIB

4 VALVE

C.S. LOT 3

0.6. LOV 4

C.S. LOT 6

TU:

- - 3. 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.
 - 4. 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
 - 5. 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.
 - 6. 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. MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

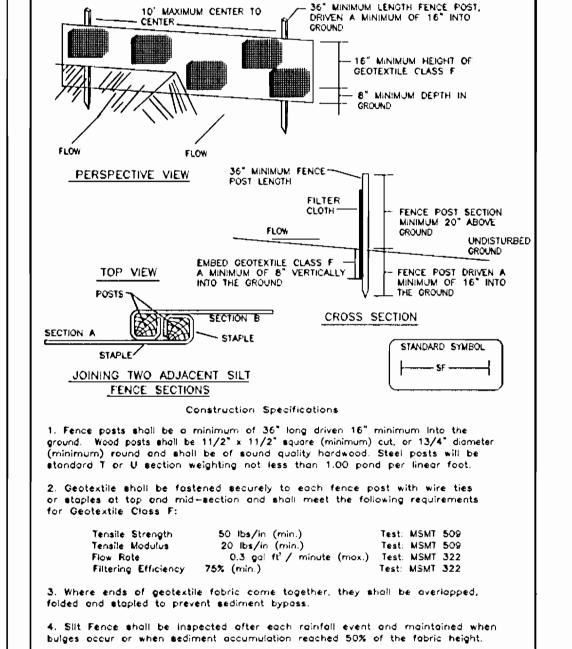
STABILIZED CONSTRUCTION ENTRANCE

Construction Specification

- 1. Length minimum of 50° (30° for single residence tot).
- . Width \pm 10' minimum, should be flared at the existing road to provide a turning 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. ** The plan approval authority may not require single family
- 4. 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

residences to use geotextile.

- 5. 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.
- 6. 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.



DETAIL 22 - SILT FENCE

MARYLAND DEPARTMENT OF ENVIRONMENT

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

WATER MANAGEMENT ADMINISTRATION

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPING AREAS.

DEPARTMENT OF PLANING & ZONING HOWARD COUNTY, MARYLAND

PROFILE OF 4" WATER MAIN

1-47-36)

TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION DISTRICT / A

SCALE: HORL:1"=50' VERT.:1"=5'

MARKS & VOGEL ASSOCIATES, INC ENCINEERS - SURVEYORS - PLANNERS

Area disturbed

Total cut

Area to be roofed or paved

Area to be vegetatively stabilized

Offsite waste/borrow area location

Howard County Sediment Control Inspector.

)=060	DATE: N	IOV.,1996	BY	NO.	REVISION	DATE	
15.1	снк:	R.H.V.					
	DRN:	J.C.O.					
	DES:	J.C.O.					

PLAN AND PROFILE WATER MAIN

NORDAU ACRES II (1.015 1-6) CONTRACT 24-3590-D

SOIL CONSERVATION SERVICE

SHOWN SHEET <u>_1_of_1</u>

SCALE

MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION

NOTE: SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF HOWARD COUNTY DESIGN MANUAL AND

STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS

8691 PARE AVENUE, SUITE 101 ELLICOTT CITY, MARYLAND 21043 TELEPHONE: (410) 461-5828 FAX: (410) 465-3966

9. Any sediment control practice which is disturbed by grading activity for

until this initial approval by the inspection agency is made.

placement of utilities must be repaired on the same day of disturbance.

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

grading. Other building or grading inspection approvals may not be authorized

and sediment controls, but before proceeding with any other earth disturbance or

10. Additional sediment controls must be provided, if deemed necessary by the

2.09 acres 0.32 acres

0.00 acres

189 cu. yds. 189 cu. yds.

0.32 acres

contractor, with pre-approval

To be determined by

of the Sediment Control

WATER MANAGEMENT ADMINISTRATION

600' SCALE MAP NO. 47 BLOCK NO. 6

6TH ELECTION DISTRICT

TAX MAP NO. 47 PARCEL NO. 665 BLOCK NO. 6 ZONED R12 HOWARD COUNTY, MARYLAND