

GENERAL NOTES

PART 1 - GENERAL

- 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 CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.C.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE 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.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL 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 WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION.....531-5533
BALTIMORE GAS & ELECTRIC CO.850-4620
CONTRACTOR SERVICES.....850-4620
BALTIMORE GAS & ELECTRIC CO.787-9068
UNDERGROUND DAMAGE CONTROL.....1-800-257-7777
MISS UTILITY.....1-800-257-7777
COLONIAL PIPELINE CO.....795-1390
HOWARD CO. DEPT. OF PUBLIC WORKS.....313-4900
BUREAU OF UTILITIES.....313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR. 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 CONSTRUCTION OF THE MAIN.
- PLACE REGULATORY "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- 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 OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.

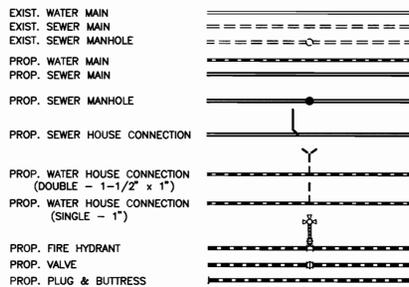
PART 2 - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS. ALL WATER HOUSE CONNECTIONS SHALL BE 1" OR 1-1/2" x 1" FOR CONNECTIONS.

PART 3 - SEWER

- ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2' - 0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVERS, STANDARD DETAIL G5.52, WHERE WATER TIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

LEGEND

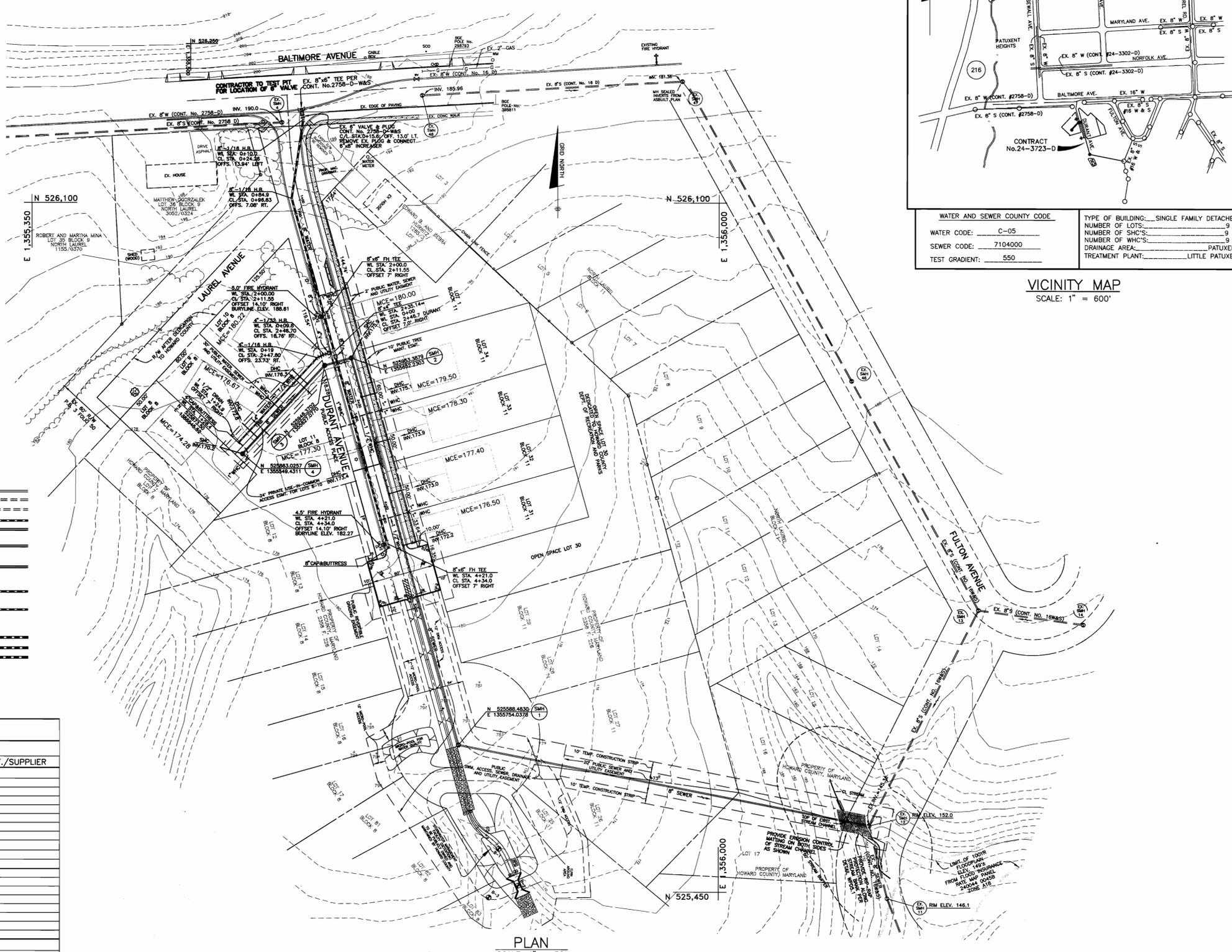


QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" WATER	433 L.F.			
4" WATER	126 L.F.			
8" VALVES	1 EA.			
4" VALVES	1 EA.			
8"x6" FHT	2 EA.			
1 1/2" DRAIN	1 EA.			
FIRE HYDRANTS	2 EA.			
1" WHC	80 L.F.			
1-1/2" WHC	62 L.F.			
8" SEWER (PVC)	518 L.F.			
8" SEWER (DIP)	395 L.F.			
MANHOLES	4 EA.			
4" SHC	30 L.F.			
4" DHC	112 L.F.			

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

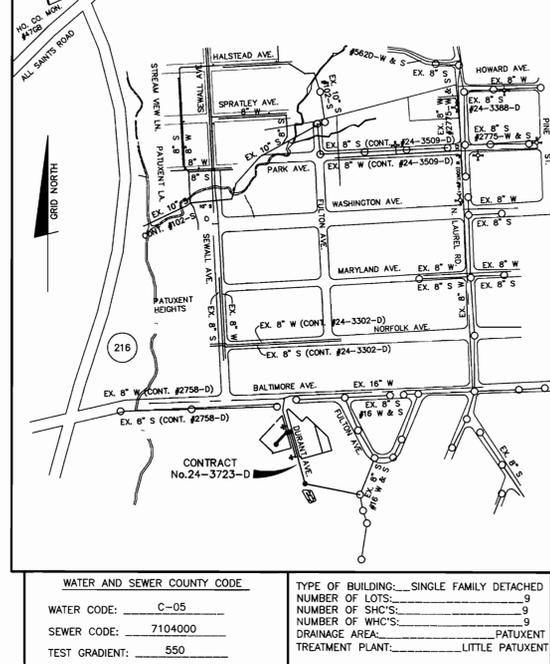
PUBLIC WATER AND SEWER CONSTRUCTION PLANS CONTRACT NO. 24-3723-D



BENCH MARKS (NAD83)

HO. CO. No. 4708
STAMPED DISC SET ON TOP OF CONC. MONUMENT BEING 0.2 MILES WEST OF WHISKEY BOTTOM ROAD ON ROUTE 216. LOCATED IN A TRAFFIC ISLAND AND 8' FROM THE EDGE OF THE EAST BOUND LANE, 21' FROM THE EDGE OF THE WEST BOUND LANE AND 46.8' SOUTH EAST OF A GRATE INLET.
N 529,917.139' E 1,353,526.704' ELEV. 259.239

HO. CO. No. 470A
STAMPED DISC SET ON TOP OF CONC. MONUMENT BEING NEAR THE INTERSECTION OF INTERSTATE 95 AND ROUTE 216. LOCATED IN A MEDIAN STRIP AND 8' FROM THE EDGE OF THE EAST BOUND LANE, 195.2' SOUTH OF THE BRIDGE ABUTMENT FOR EAST BOUND ROUTE 216 AND 150.2' NORTH OF THE RAMP FROM EAST BOUND 216 TO NORTH INTERSTATE 95.
N 532,404.179' E 1,351,627.363' ELEV. 350.468



WATER AND SEWER COUNTY CODE

WATER CODE: C-05
SEWER CODE: 7104000
TEST GRADIENT: 550

TYPE OF BUILDING: SINGLE FAMILY DETACHED
NUMBER OF LOTS: 9
NUMBER OF SHC'S: 9
NUMBER OF WHC'S: 9
DRAINAGE AREA: PATUXENT
TREATMENT PLANT: LITTLE PATUXENT

VICINITY MAP
SCALE: 1" = 600'

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. H. Wayfield 1/5/01
NATURAL RESOURCES CONSERVATION SERVICE

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

John R. Whitaker 1/5/01
HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS F-00-82

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. Beaman 1-2-01
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Howard M. Daneman 1/2/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS

Ronald Mason

8480 BALTIMORE NATIONAL PIKE • SUITE 418
ELICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-8644

DES: GWF					
DRN: DBT/DAS					
CHK: GWF					
DATE: 8/7/00					
DATE: 12/18/00	BY NO.	REVISIONS	DATE		

TITLE PAGE

600 SCALE MAP NO. 50

BLOCKS 3

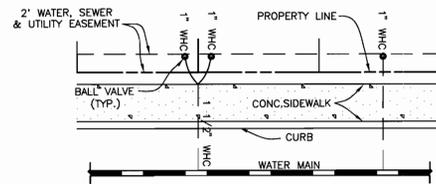
NORTH LAUREL PARK - DURANT AVENUE
BLOCK '8' LOTS 8-11; BLOCK '11' LOT 1, OPEN SPACE LOT 30 AND LOTS 31-34
PUBLIC STORMWATER MANAGEMENT FACILITY, TREE MAINTENANCE EASEMENT AND WATER, SEWER, DRAINAGE AND UTILITY EASEMENTS

ELECTION DISTRICT NO. 6

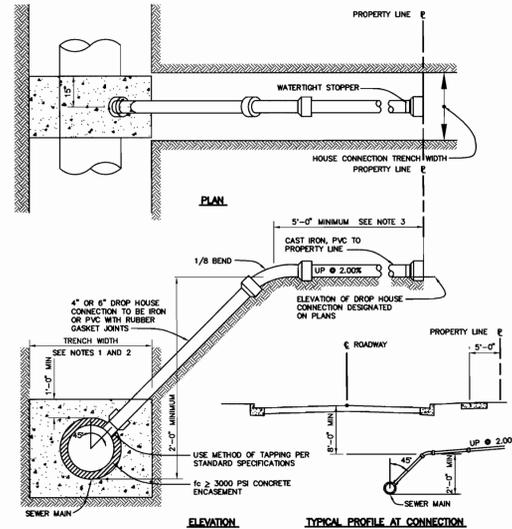
CONTRACT NO. 24-3723-D

SCALE:
AS SHOWN

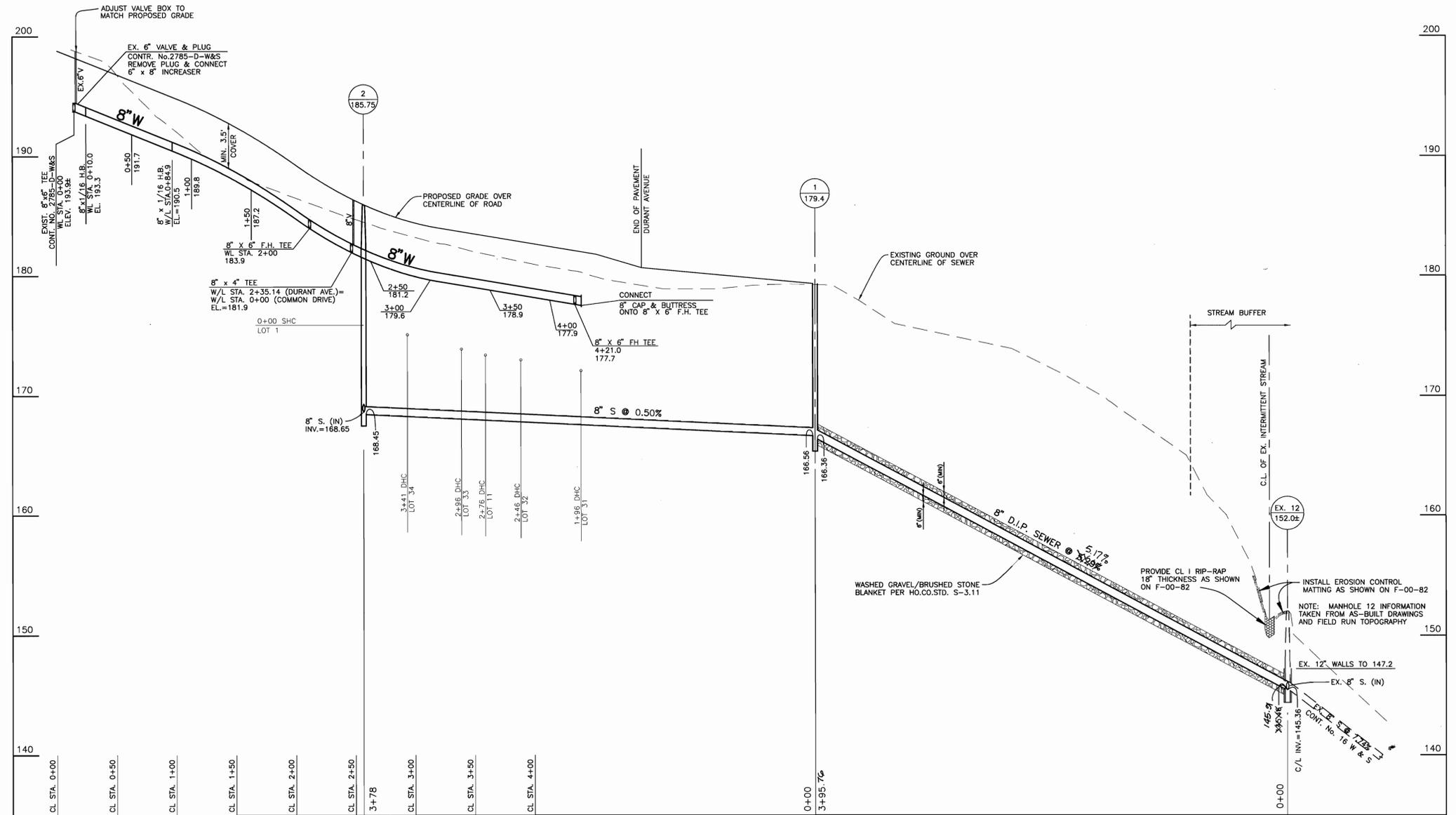
SHEET NO.
1 OF 2



TYPICAL WATER HOUSE CONNECTIONS
NOT TO SCALE

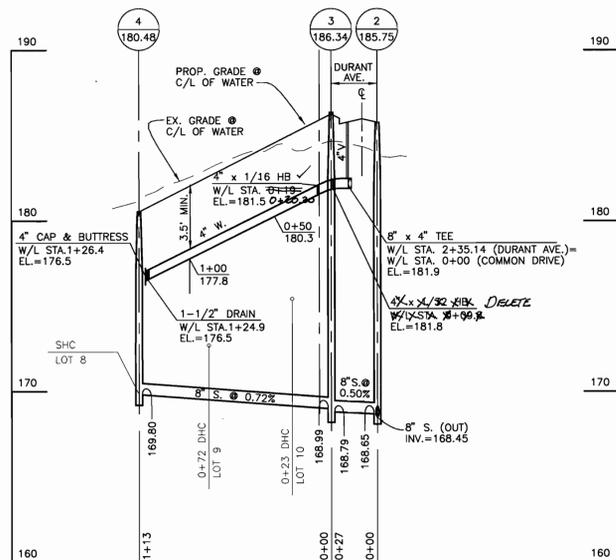


4" & 6" DROP HOUSE
CONNECTION TO SEWER MAIN
NOT TO SCALE
HOWARD COUNTY DESIGN MANUAL - VOL II
WATER AND SEWER - APPENDIX 13



WATER AND SEWER PROFILE
DURANT AVENUE AND COMMON DRIVE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



WATER AND SEWER PROFILE
ALONG COMMON DRIVE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTE: ALL SEWER MANHOLES SHALL
BE PRECAST FOR THIS CONTRACT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-8105 FAX: 410-465-6644

Ronald Mason
12/19/00

DES: GWF			
DRN: DBT/DAS			
CHK: GWF			
DATE: 8/7/00			
DATE: 12/18/00	BY NO.	REVISIONS	DATE

PROFILES AND DETAILS

600 SCALE MAP NO. 50

BLOCKS 3

NORTH LAUREL PARK - DURANT AVENUE
BLOCK '8' LOTS 8-11; BLOCK '11' LOT 1, OPEN SPACE LOT 30 AND LOTS 31-34
PUBLIC STORMWATER MANAGEMENT FACILITY, TREE MAINTENANCE EASEMENT AND
WATER, SEWER, DRAINAGE AND UTILITY EASEMENTS

ELECTION DISTRICT NO. 6

CONTRACT NO. 24-3723-D

SCALE:
AS SHOWN

SHEET NO.
2 OF 2

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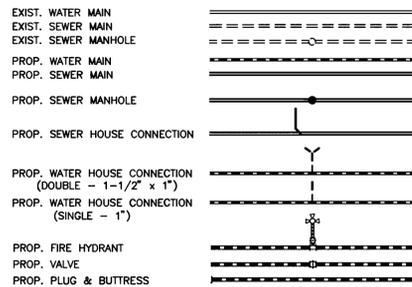
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LEGEND



QUANTITIES

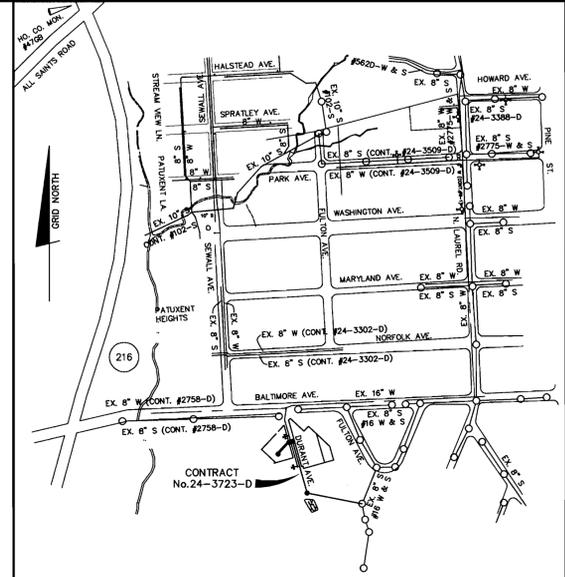
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" WATER	433 L.F.	433	DUCTILE CL. 52	GRAFFINI / BRS
4" WATER	126 L.F.	126	"	"
8" VALVES	1 EA.	1	RES. G.V.	MUELLER / BRS
4" VALVES	1 EA.	1	"	"
8" x 6" FHT	2 EA.	2	CEBTRONS 5/8"	"
1 1/2" DRAIN	1 EA.	1	CBRASS	MERIT / BRS
FIRE HYDRANTS	2 EA.	2	CEBTRONS	MUELLER / BRS
1" WHC	80 L.F.	80	COPPER	REDDING / BRS
1-1/2" WHC	62 L.F.	62	COPPER	"
8" SEWER (PVC)	518 L.F.	518	S.D.R. 35	J.H. MANUFACT / BRS
8" SEWER (DIP)	395 L.F.	395	DUCTILE CL. 52	GRAFFINI / BRS
MANHOLES	4 EA.	4	PRE-CAST	ATLANTIC / CRANE
4" SHC	30 L.F.	30	S.D.R. 35	J.H. / BRS
4" DHC	112 L.F.	112	"	"

NAME OF UTILITY CONTRACTOR: *CANES*
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: *6/15/01*

PUBLIC WATER AND SEWER CONSTRUCTION PLANS CONTRACT NO. 24-3723-D

BENCH MARKS (NAD83)

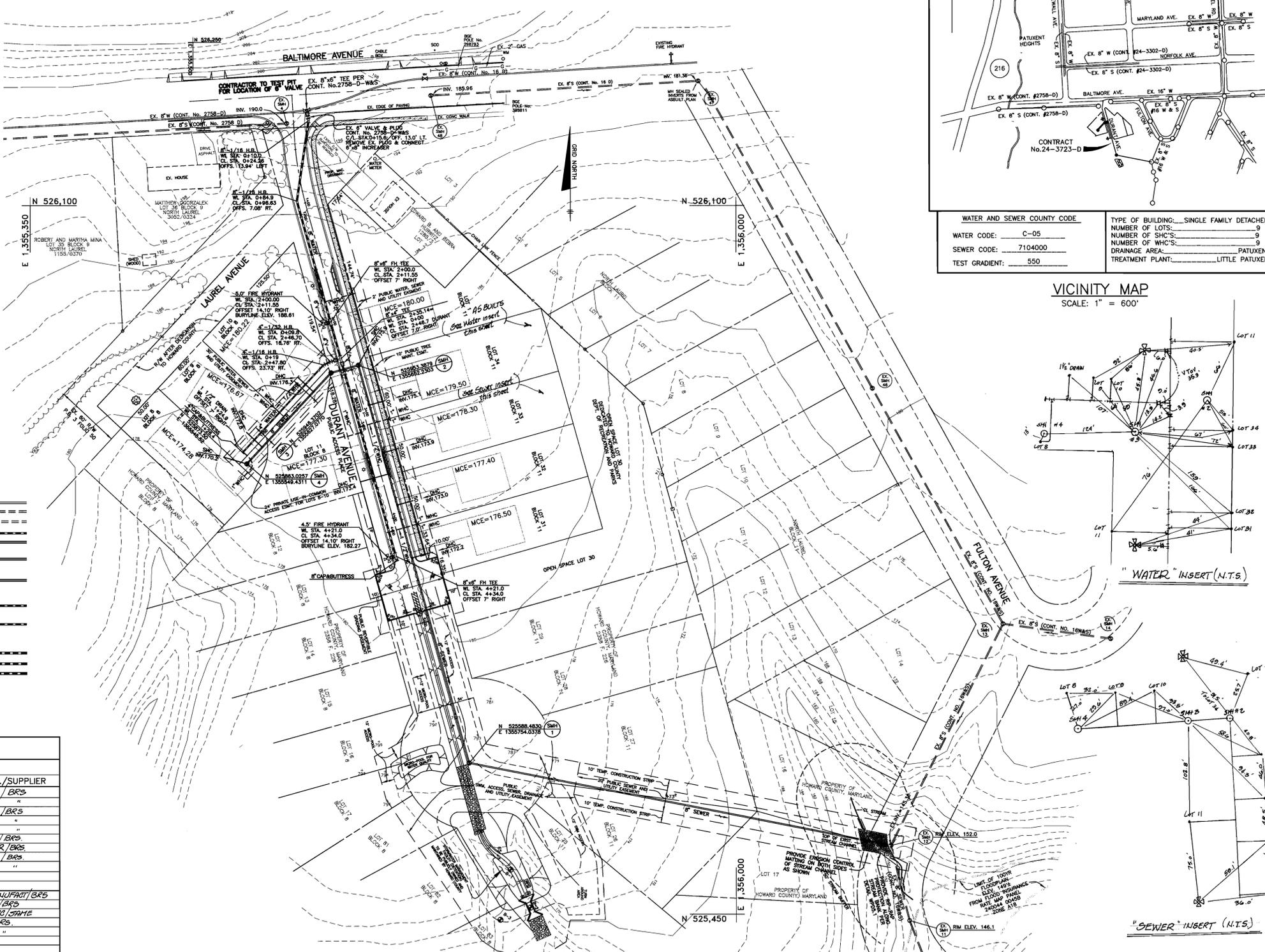
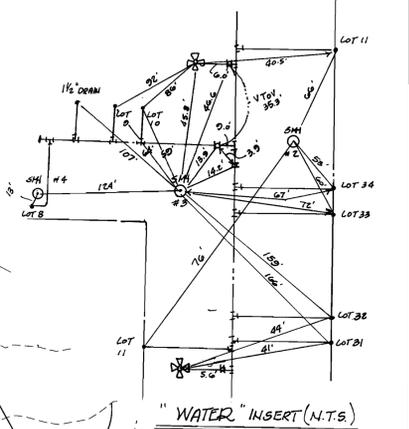
HO. CO. No. 4708
STAMPED DISC SET ON TOP OF CONC. MONUMENT BEING 0.2 MILES WEST OF WHISKEY BOTTOM ROAD ON ROUTE 216. LOCATED IN A TRAFFIC ISLAND AND 8' FROM THE EDGE OF THE EAST BOUND LANE, 21' FROM THE EDGE OF THE WEST BOUND LANE AND 48.8' SOUTH EAST OF A GRADE INLET.
N 529,917.139' E 1,353,526.704' ELEV. 259.239
HO. CO. No. 470A
STAMPED DISC SET ON TOP OF CONC. MONUMENT BEING NEAR THE INTERSECTION OF INTERSTATE 95 AND ROUTE 216. LOCATED IN A MEDIAN STRIP AND 8' FROM THE EDGE OF THE EAST BOUND LANE, 195' SOUTH OF THE BRIDGE ABUTMENT FOR EAST BOUND ROUTE 216 AND 150' NORTH OF THE RAMP FROM EAST BOUND 216 TO NORTH BOUND INTERSTATE 95.
N 532,404.179' E 1,351,627.363' ELEV. 350.468



WATER AND SEWER COUNTY CODE		TYPE OF BUILDING: SINGLE FAMILY DETACHED	
WATER CODE:	C-05	NUMBER OF LOTS:	9
SEWER CODE:	7104000	NUMBER OF SHC'S:	9
TEST GRADIENT:	550	NUMBER OF WHC'S:	9
		DRAINAGE AREA:	PATUXENT
		TREATMENT PLANT:	LITTLE PATUXENT

VICINITY MAP

SCALE: 1" = 600'



PLAN SCALE: 1" = 50'

HOWARD SOIL CONSERVATION DISTRICT: REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

J. A. Wayfield 1/5/01
NATURAL RESOURCES CONSERVATION SERVICE

THIS PLAN IS APPROVED FOR SOIL CONSERVATION DISTRICT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

J. R. Deaton 1/5/01
HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS F-00-82

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLICOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6644

Donald Mason
12/14/00

DES:	GWF				
DRN:	DBT/DAS				
CHK:	GWF				
DATE:	8/7/00	KLI	1	AS-BUILT CONDITIONS ADDED TO PLAN	08/17/01
	12/18/00	BY	NO.	REVISIONS	DATE

TITLE PAGE

600 SCALE MAP NO. 50

BLOCKS 3

NORTH LAUREL PARK - DURANT AVENUE
BLOCK '8' LOTS 8-11; BLOCK '11' LOT 1, OPEN SPACE LOT 30 AND LOTS 31-34
PUBLIC STORMWATER MANAGEMENT FACILITY, TREE MAINTENANCE EASEMENT AND WATER, SEWER, DRAINAGE AND UTILITY EASEMENTS

ELECTION DISTRICT NO. 6
CONTRACT NO. 24-3723-D

SCALE: AS SHOWN
SHEET NO. 1 OF 2