

3257 w/l Merryman St. Water Main.

NOTE: PARCELS DENOTED HEREON AS "SERVED" HAVE ADEQUATE EXISTING WATER HOUSE CONNECTIONS OFF OF MAINS SIX INCHES IN SIZE OR LARGER LOCATED IN ADJACENT ROADS. EX. W.H.C.'S SERVING PARCELS 239, 96 AND 21 ARE TO BE ADJUSTED TO CONNECT TO THE PROP. 6" WATER MAIN. EX. TWO INCH WATER MAIN IN MERRYMAN STREET IS TO BE ABANDONED IN PLACE UPON COMPLETION OF THIS CONTRACT.

NOTE: CONTRACTOR TO USE GREAT CARE IN REMOVING SECTIONS OF EXISTING HOUSE STONE BRIDGES TO PLACE PROP. 6" WATER ACROSS SPANS. ALL VOIDS IN ABUTMENT WALLS SHALL BE FILLED WITH MIX NO. 3 CONCRETE OR HOWARD COUNTY D.P.W. APPROVED EQUAL AND ALLOWED TO FIRMLY SET BEFORE PROCEEDING WITH ADDITIONAL CONSTRUCTION.

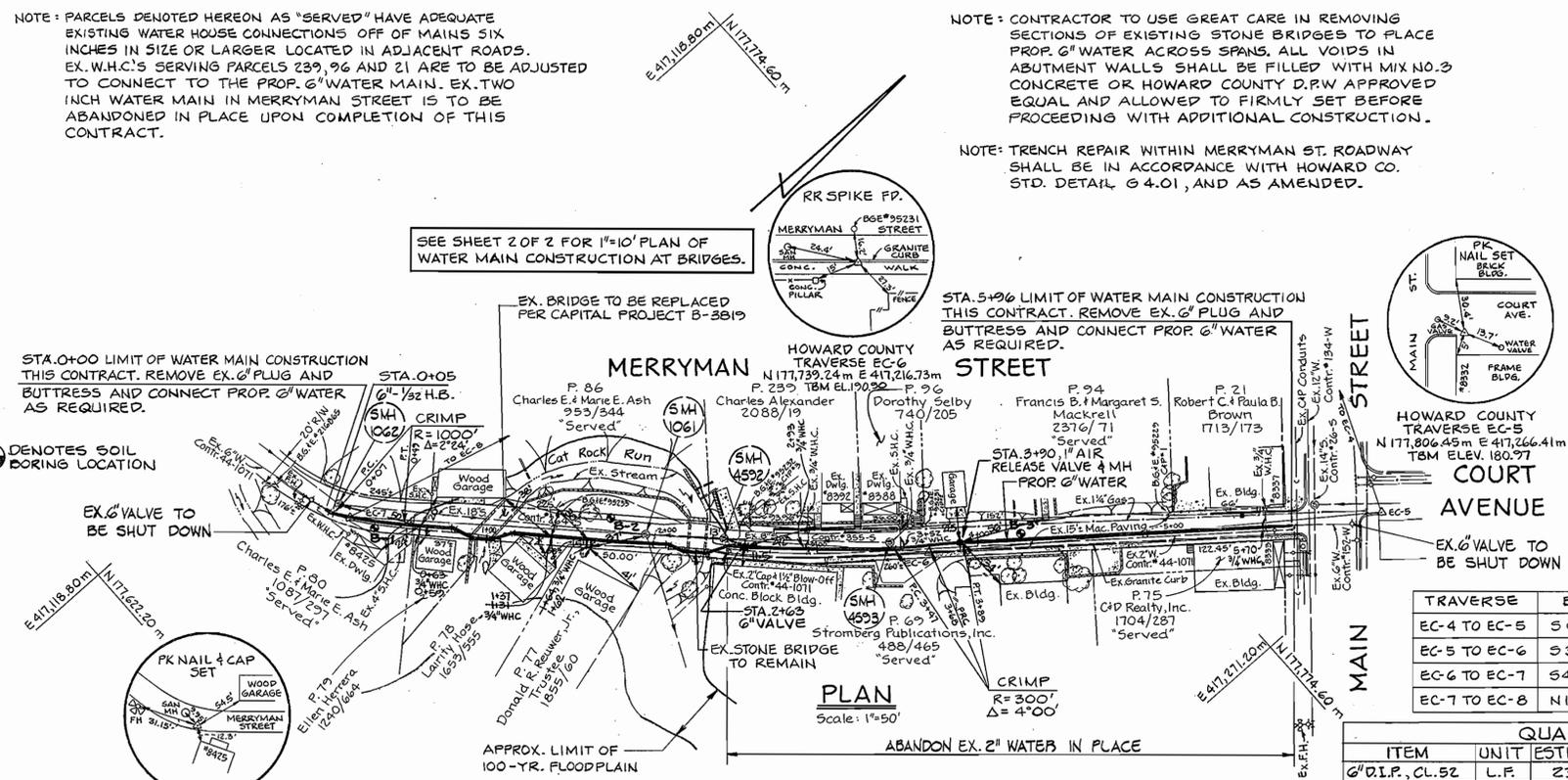
NOTE: TRENCH REPAIR WITHIN MERRYMAN ST. ROADWAY SHALL BE IN ACCORDANCE WITH HOWARD CO. STD. DETAIL G 4.01, AND AS AMENDED.

SEE SHEET 2 OF 2 FOR 1"=10' PLAN OF WATER MAIN CONSTRUCTION AT BRIDGES.

STA. 5+96 LIMIT OF WATER MAIN CONSTRUCTION THIS CONTRACT. REMOVE EX. 6" PLUG AND BUTRESS AND CONNECT PROP. 6" WATER AS REQUIRED.

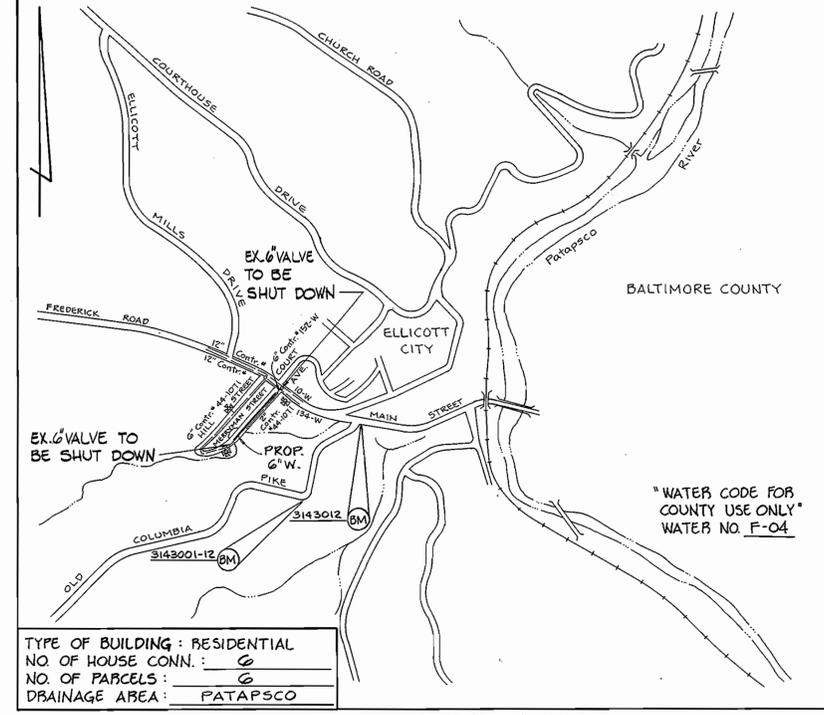
STA. 0+00 LIMIT OF WATER MAIN CONSTRUCTION THIS CONTRACT. REMOVE EX. 6" PLUG AND BUTRESS AND CONNECT PROP. 6" WATER AS REQUIRED.

⊙ DENOTES SOIL BORING LOCATION



TRAVERSE	BEARING	DIST.
EC-4 TO EC-5	S 67° 26' 31" E	244.76
EC-5 TO EC-6	S 36° 28' 03" W	274.19
EC-6 TO EC-7	S 44° 54' 12" W	349.21
EC-7 TO EC-8	N 14° 33' 28" E	287.40

QUANTITIES				
ITEM	UNIT	ESTIMATE	AS-BUILT	SUPPLIER
6" D.I.P., CL. 52	L.F.	234	233	
6" P.I.P., CL. 52	L.F.	362	263	
RESTRAINED JOINTS	L.F.	30	44	
2" THICK PIPE INSULATION & FINISH	L.F.	30	44	
6" - 1/2" H.B.	EA.	4	4	
6" - 1/2" V.B.	EA.	4	4	
6" - 1/2" BEND	EA.	4	4	
3/4" W.H.C.	L.F.	30	34	
6" VALVE	EA.	1	1	
1" AIR RELEASE VALVE AND MANHOLE	EA.	1	1	

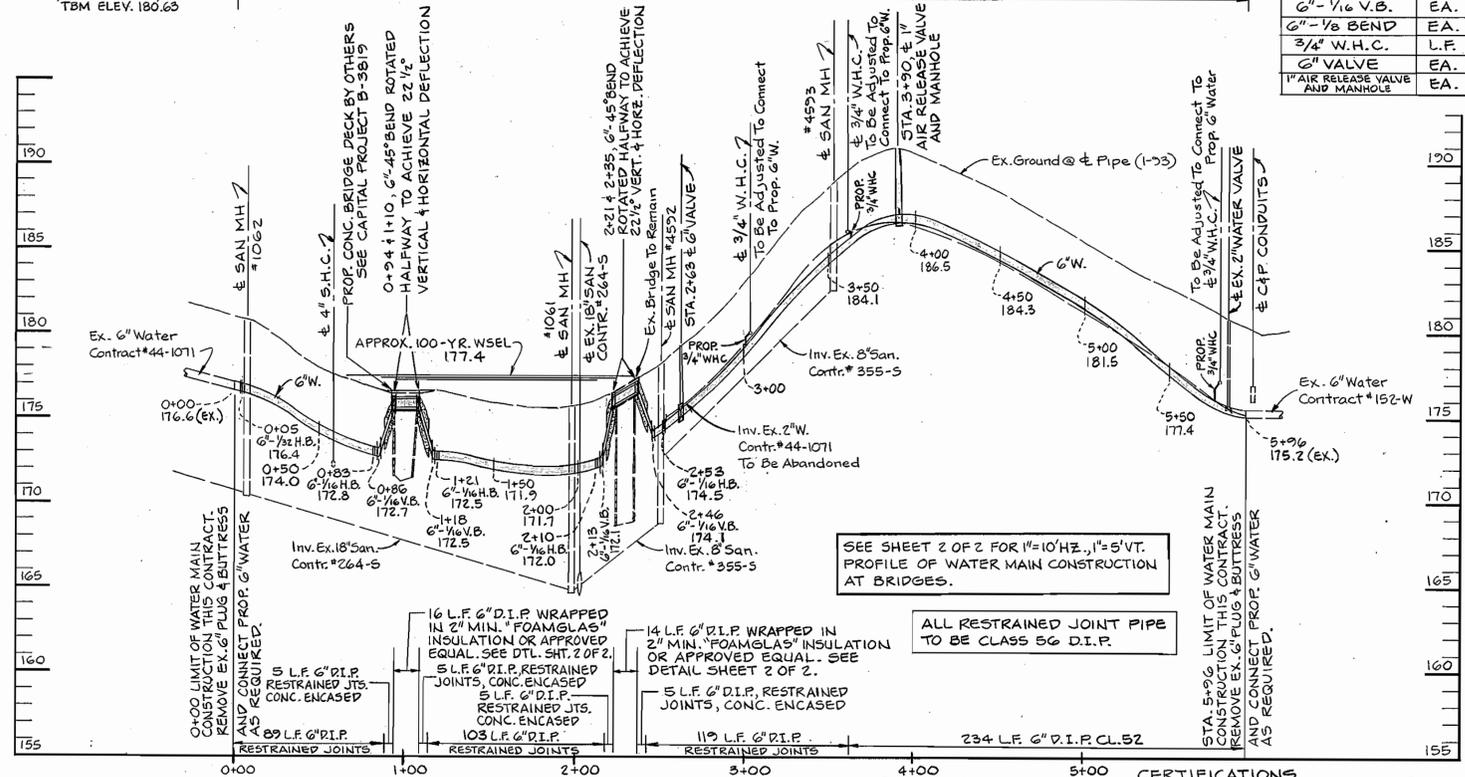


VICINITY MAP  
Scale: 1"=600'

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING WATER MAINS AND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED WATER SUPPLY TO EXISTING DWELLINGS. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER IN THE FIELD AT THE CONTRACTORS' EXPENSE.
- ALL HORIZONTAL CONTROLS SHOWN ARE BASED ON NAP-83 COORDINATE SYSTEM.
- ALL VERTICAL CONTROLS BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR TO CLEAR ALL EXISTING UTILITIES BY A MINIMUM OF 6 INCHES.
- FOR DETAILS NOT SHOWN ON THESE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS, REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME II, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). A COPY OF THIS MANUAL IS TO BE KEPT ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING UTILITY COMPANIES AND AGENCIES AT LEAST FIVE WORKING DAYS PRIOR TO STARTING ANY WORK ON THIS CONTRACT:
 

C&P TELEPHONE COMPANY	597-8585
STATE HIGHWAY ADMINISTRATION	531-5533
B.G.&E. CO. CONTRACTOR SERVICE	850-4620
B.G.&E. CO. UNDERGROUND DAMAGE CONTROL	859-9004
A.T.&T.	865-3803
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE	795-1390
HOWARD COUNTY D.P.W., BUREAU OF UTILITIES	313-4900
- ALL WATER MAINS PLACED SHALL BE CLASS 52 D.I.P., UNLESS OTHERWISE NOTED.
- CONTRACTOR TO KEEP 3.5 FEET MIN. COVER TO TOP OF ALL WATER MAIN PIPE.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THESE DRAWINGS. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM. CALL HOWARD CO. BUREAU OF UTILITIES AT 313-4900 TO COORDINATE THE TIE-IN TO THE EXISTING 6" WATER MAINS AT LEAST FIVE WORKING DAYS PRIOR TO SCHEDULING.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON PLANS OR IN THE SPECIFICATIONS.
- TRENCH REPAIRS TO BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
- ALL WORK WILL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL SECTION 219, AS AMENDED.
- CONTRACTOR MUST TEST PIT TO VERIFY DEPTH AND LOCATION OF ENDS OF BOTH EXISTING 6 INCH WATER MAINS PRIOR TO LAYING ANY NEW PIPE. NOTIFY W. DUVALL AND ASSOC., INC. AT (410) 583-9511 OF ANY DISCREPANCIES BEFORE PROCEEDING.
- ALL APPLICABLE COUNTY, STATE AND FEDERAL REQUIREMENTS FOR TRENCH SAFETY SHALL BE ADHERED TO ALL TIMES.
- THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A "MAINTENANCE OF TRAFFIC SCHEDULE" TO THE ENGINEER FOR APPROVAL. THE SCHEDULE SHALL INCLUDE A CHRONOLOGICAL SEQUENCE OF THE DATES OF PLACEMENT AND REMOVAL OF ALL SIGNAGE. THE CONTRACTOR WILL BE REQUIRED TO STRICTLY ADHERE TO THE APPROVED MAINTENANCE OF TRAFFIC SCHEDULE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY AT (410) 313-2450 AT LEAST 5 WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH D.P.W. REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.



SEE SHEET 2 OF 2 FOR 1"=10' H.Z., 1"=5' V.T. PROFILE OF WATER MAIN CONSTRUCTION AT BRIDGES.

ALL RESTRAINED JOINT PIPE TO BE CLASS 52 D.I.P.

CERTIFICATIONS

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 the 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 County Soil Conservation District."

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 County Soil Conservation District."

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
Signature: *Jan M. ...* DATE: 5/13/93  
U.S. SOIL CONSERVATION SERVICE

This Construction Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
APPROVED: *[Signature]* DATE: 5/13/93  
HOWARD S.C.D.

Signature of Developer: *[Signature]* DATE: 5-14-93

Signature of Engineer: *[Signature]* DATE: 3/24/93

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Signature: *[Signature]* DATE: 5/13/93  
DIRECTOR OF PUBLIC WORKS  
Signature: *[Signature]* DATE: 5-13-93  
CHIEF, BUREAU OF UTILITIES

W. DUVALL & ASSOCIATES, INC.  
ENGINEERS · SURVEYORS · PLANNERS  
530 EAST JOPPA ROAD  
TOWSON, MARYLAND 21286  
(410) 583-9511

DES: W.D.A.	
DRN: S.D.S.	
CHK: G.D.L.	
DATE: 3-18-93	
BY: NO.	
REVISION	
DATE	

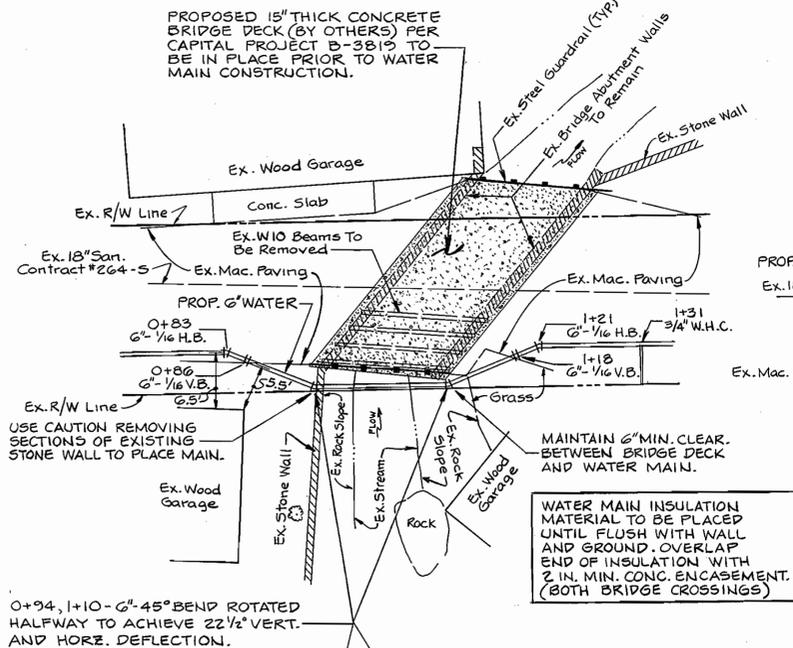
6" WATER MAIN  
CONTRACT NO. 44-3257

MERRYMAN STREET WATER MAIN  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT W-8187

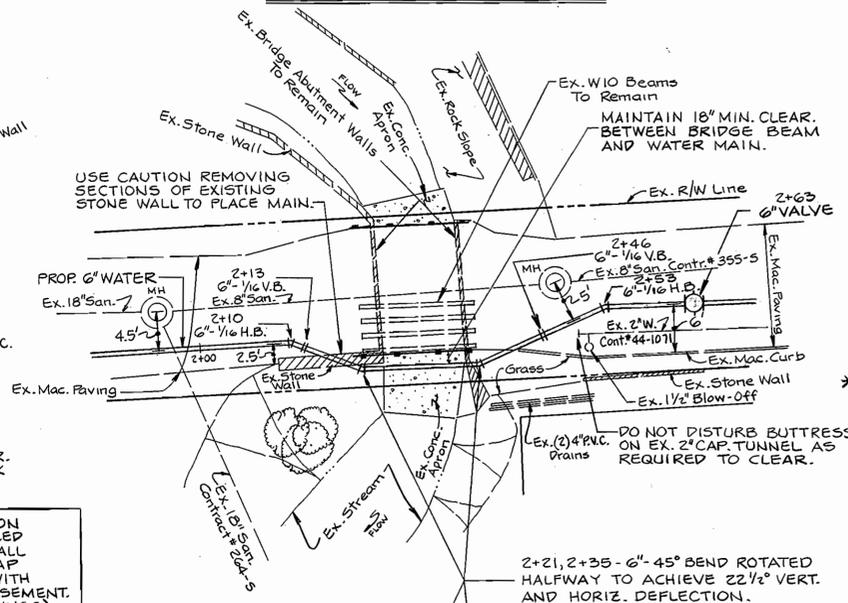
SCALE AS SHOWN  
SHEET 1 OF 2

3257 W/2 Merryman St. Water Main.

PLAN VIEW DETAIL - 1"=10'



PLAN VIEW DETAIL - 1"=10'



RESTORATION SCHEDULE		
LOCATION	DISTANCE	TYPE
STA. 0+00 TO STA. 0+86	86'	MACADAM
" 0+86 "	" 0+94 "	SEED
" 0+94 "	" 0+95 "	CONCRETE (STONE WALL)
" 1+10 "	" 1+12 "	CONCRETE (ROCK SLOPE)
" 1+12 "	" 1+18 "	SEED
" 1+18 "	" 2+15 "	MACADAM
" 2+15 "	" 2+18 "	CONCRETE (STONE WALL)
" 2+35 "	" 2+39 "	SEED
" 2+39 "	" 5+96 "	MACADAM
" 0+63 (W.H.C.)	6'	2' MACADAM, 4' SEED
" 1+31 (W.H.C.)	6'	MACADAM
" 1+64 (W.H.C.)	6'	4' MACADAM, 2' SEED
" 2+93 (W.H.C.)	4'	MACADAM
" 3+52 (W.H.C.)	4'	MACADAM
" 5+70 (W.H.C.)	4'	MACADAM

STAKEOUT SCHEDULE		
FITTING	DISTANCE	OFFSET
EX. 6" PLUG, STA. 0+00	EC-6 TO EC-7 (EXT.), 364'	4' R.
6" - 1/2 H.B., STA. 0+05	" " " " " " " " " " " "	2' R.
6" - 1/2 H.B., STA. 0+83	EC-7 TO EC-6, 62'	3' R.
6" - 1/2 V.B., STA. 0+86	" " " " " " " " " " " "	4.5' R.
6" - 1/2 BEND, STA. 0+94	" " " " " " " " " " " "	9' R.
6" - 1/2 BEND, STA. 1+10	" " " " " " " " " " " "	8' R.
6" - 1/2 V.B., STA. 1+18	" " " " " " " " " " " "	5' R.
6" - 1/2 H.B., STA. 1+21	" " " " " " " " " " " "	4' R.
3/4" W.H.C., STA. 1+31	" " " " " " " " " " " "	5' R.
3/4" W.H.C., STA. 1+64	" " " " " " " " " " " "	5' R.
6" - 1/2 H.B., STA. 2+10	" " " " " " " " " " " "	5' R.
6" - 1/2 V.B., STA. 2+13	" " " " " " " " " " " "	6' R.
6" - 1/2 BEND, STA. 2+21	" " " " " " " " " " " "	9' R.
6" - 1/2 BEND, STA. 2+35	" " " " " " " " " " " "	9' R.
6" - 1/2 V.B., STA. 2+46	" " " " " " " " " " " "	5.5' R.
6" - 1/2 H.B., STA. 2+53	" " " " " " " " " " " "	4' R.
3/4" W.H.C., STA. 2+93	" " " " " " " " " " " "	2.5' R.
3/4" W.H.C., STA. 3+52	" " " " " " " " " " " "	2' L.
3/4" W.H.C., STA. 0+63	" " " " " " " " " " " "	3' R.
3/4" W.H.C., STA. 5+70	EC-6 TO EC-5, 201'	2.5' R.
1" AIR RELEASE VALVE AND MANHOLE, STA. 3+90	EC-6 TO EC-5, 19'	5' L.
EX. 6" PLUG, STA. 5+96	" " " " " " " " " " " "	3' R.
6" VALVE, STA. 2+63	EC-7 TO EC-6, 238'	4' R.

\* LOCATIONS APPROXIMATE. CONTRACTOR TO TEST-PIT TO DETERMINE EXACT LOCATION.

SEQUENCE OF CONSTRUCTION

- Contact Howard County Bureau of Construction Inspection (410) 792-7272 and W. Duvall & Associates, Inc. (410) 583-9571 at least five working days prior to starting date.
- Install all necessary maintenance of traffic signs and devices as required by the approved "Maintenance of Traffic Schedule."
- Test pit to verify depth and location of ends of both existing 6 inch water mains prior to laying any new pipe. Notify W. Duvall & Associates, Inc. at (410) 583-9571 of any discrepancies before proceeding with construction stakeout.
- Install erosion and sediment control devices as per Section 219 of the Howard County Design Manual, Vol. IV, dated March 1986 and as amended.
- Perform construction stakeout.
- Excavate and install proposed 6 inch water main and 3/4 inch water house connections. Length of open trench shall be limited to that which can be backfilled and stabilized within one working day. Existing 2-inch water main and associated water house connections are to remain in service until after the proposed 6-inch main has been tested and chlorinated.
- Test and chlorinate tested 6-inch water main.
- Connect ex. W.H.C.'s to prop. 6-inch water main and abandon ex. 2-inch water main in place. No existing water service shall be out of service for more than 4 hours. Property owners shall be notified a minimum of 48 hours in advance of any interruption of service. The Howard Co. Bureau of Utilities shall be notified a minimum of 5 days in advance of any service interruption.
- Restore paving and earth trenches to their original condition as per Howard County Standard Detail G 4-21 and as amended.
- Upon permission from Howard Co. Sediment Control Inspector, remove Sediment Control Devices.
- Fine grade all disturbed areas and stabilize with permanent seeding.

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. (410) 313-1855.
  - 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.
  - 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.
  - 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 SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). 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.
6. SITE ANALYSIS:
- |                                    |              |
|------------------------------------|--------------|
| TOTAL AREA OF SITE                 | ACRES        |
| AREA DISTURBED                     | 0.041 ACRES  |
| AREA TO BE ROOFED OR PAVED         | 0.040 ACRES  |
| AREA TO BE VEGETATIVELY STABILIZED | 0.001 ACRES  |
| TOTAL CUT                          | 108 CU. YDS. |
| TOTAL FILL                         | 103 CU. YDS. |
- OFFSITE WASTE/BORROW AREA LOCATION - HOWARD CO. LANDFILL
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
  - 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 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.

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.

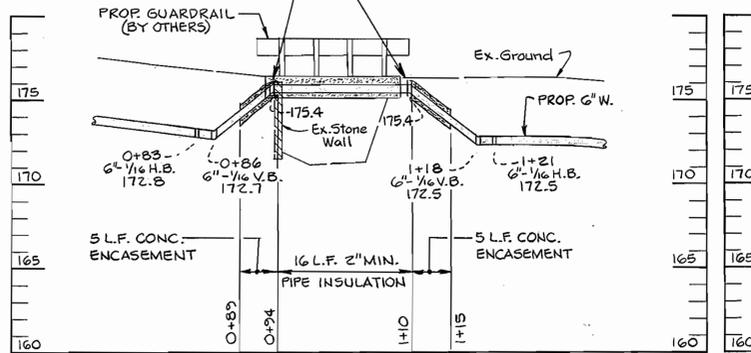
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 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 THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA-FORM 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.

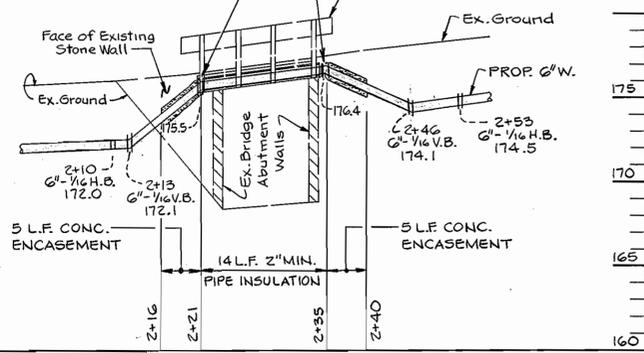
SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE (1.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 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/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/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.

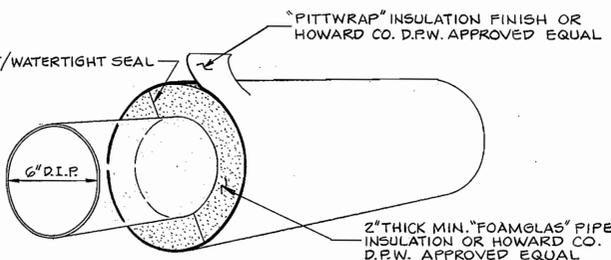
MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



PROFILE - 1"=10' H.; 1"=5' V.



PROFILE - 1"=10' H.; 1"=5' V.



PIPE INSULATION DETAIL

- NOTES:
- ALL PIPE INSULATION MATERIALS TO BE USED SHALL BE INSPECTED AND APPROVED BY HOWARD CO. D.P.W. PRIOR TO CONSTRUCTION.
  - PRIOR TO THE APPLICATION OF ANY INSULATION, ALL PIPE SURFACES SHALL BE THOROUGHLY CLEANED OF GREASE, DIRT, RUST, ETC., IF REQUIRED BY THE ENGINEER IN THE FIELD, THE PIPE SHALL BE PRIMED WITH EITHER A RUST-INHIBITING PAINT OR OTHER SUITABLE PROTECTIVE COATINGS.
  - ALL INSULATION BUTT JOINTS ARE TO BE STAGGERED AND TIGHTLY BUTTED. VOIDS SHALL BE ELIMINATED BY REFITTING OR REPLACING INSULATION.
  - AT ALL PIPE BENDS, INSULATION AND FINISH SHALL BE PRECUT TO FIT SURFACE CONTOURS, ALL OVERLAPS SHALL BE HEAT SEALED.
  - A COPY OF THE INSULATION MANUFACTURERS' SPECIFICATIONS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. *James M. Zehner* 5/10/93 DATE

This Construction Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District. APPROVED: *John J. Kelly* 5/10/93 DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

W. DUVALL & ASSOCIATES, INC.  
ENGINEERS - SURVEYORS - PLANNERS  
530 EAST JOPPA ROAD  
TOWSON, MARYLAND 21286  
(410) 583-9571



DES: W.D.A.	
DRN: S.D.S.	
CHK: G.D.L.	
DATE: 3-18-93	
BY NO.	
REVISION	
DATE	

6" WATER MAIN  
CONTRACT NO. 44-3257

SCALE AS SHOWN

MERRYMAN STREET WATER MAIN  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

CAPITAL PROJECT W-8187

SHEET 2 OF 2