MD. ROUTE 108 WATER MAIN HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

QUANTITIES							
ITEM	QUA	NTITIES	TYPE	CHEDITED			
TIEM	ESTIM.	AS BUILT	MATERIAL	SUPPLIER			
16" WATER	2,396 LF		·				
12" VALVE (RSGV)	2 EA						
16" VALVE (RSGV)	1 EA		,				
6" FIRE HYDRANT	4 EA						
3/4" WATER HOUSE CONNECTION	40 LF						
1 1/2 AIR RELEASE VALVE	2 EA						
BLOWOFF VALVE	1 EA		·				
CLASS I RIPRAP	10 SY			:			
GEOTEXTILE CLASS 'C' FOR SSF	2,316 LF			1.			
30" STEEL CASING PIPE(JACK & BORE)	61.5 LF	•					

"SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH VOLUME 4, ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS."

DEVELOPER'S CER	TIFICATION
"I/WE CERTIFY THAT ALL DEVELOPMENT ACCORDING TO THIS PLAN, AND THAT ANY RESCONSTRUCTION PROJECT WILL HAVE A CERTIFIC OF THE ENVIRONMENT APPROVED TRAINING PROJECT AND EROSION BEFORE BEGINNING THE PROJECT INSPECTION BY THE HOWARD SOIL CONSERVATIONS	SPONSIBLE PERSONNEL INVOLVED IN THE CATE OF ATTENDANCE AT A DEPARTMENT DORAM FOR THE CONTROL OF SEDIMENT TO ALSO AUTHORIZE PERIODIC ON—SITE
SIGNATURE OF DEVELOPER PRINT NAME BELOW SIGNATURE	DATE 11.18-91
ENGINEER'S CERTIFICATION "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 COUNTY S.C.D. MEETS TECHNICAL REQUIREMENTS. U.S. SOIL CONSERVATION SERVICE DATE
WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093	THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT APPROVED HOWARD S.C.D.

NOTE: PRESSURE ZONE - 630	PROJECT SITE OF TECHNOLOGY SCHOOL OF TECHNOLOGY SHEET NO. 2 SHEET NO. 2 SHEET NO. 3 SOB,000 N 508,000	OCONTRACT 2831-WAS CONTRACT 2831-WAS CONTRACT 28-31-WAS CONTRACT 24-10-930 CONTRACT 24-10-930 CONTRACT 24-10-930 CONTRACT 24-10-98 CONTRACT 24-10-98 CONTRACT 24-10-98 CONTRACT 24-10-98 CONTRACT 24-10-98
TYPE OF BUILDING: RESIDENTIAL NUMBER OF PARCELS: 7 WATER HOUSE CONNECTIONS: 4 DRAINAGE AREA: MIDDLE PATUXENT RIVER	VICINITY MAP SCALE: 1" = 600'	WATER CODE FOR COUNTY USE ONLY: WATER NO. 103

INDEX OF SHEETS						
SHEET NO.	DESCRIPTION					
2	PLAN & PROFILE STA. 0+00 TO STA. 8+00					
3	PLAN & PROFILE STA. 8+00 TO STA. 17+50					
4	PLAN & PROFILE STA. 17+50 TO STA. 23+96.0					
5	SEDIMENT CONTROL MEASURES & TRAVERSE INFO.					
6	DETAILS FOR PROPOSED WATER MAIN					

GENERAL NOTES:

- 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS, 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 BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS BASED ON U.S.G.S. DATUM.
- 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 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 THE 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 CONTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. 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 TESTS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: BALTO. GAS & ELECTRIC CO.- CONTRACTOR SERVICE 850-4620 BALTO. GAS & ELECTRIC CO .- UNDERGROUND DAMAGE CONTROL 859-9004 BALTO. GAS & ELECTRIC CO.- TROUBLE SHOOTING 298-9001 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS- 313-4900 C & P TELEPHONE CO.- 597-8585 STATE HIGHWAY ADMINISTRATION 531-5533 MISS UTILITY 1-800-257-7777
- 9. 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.
- 10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 12. TOPS OF ALL WATER MAINS TO HAVE A MIN. OF 3.5' COVER UNLESS OTHERWISE NOTED.
- 13. WATER VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 14. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 15. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 FROM THE STANDARD SPECS.
- 16. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM. CALL HOWARD COUNTY BUREAU OF UTILITIES AT 313-4900. COORDINATE THE TIE-IN TO THE EXISTING WATER MAINS AT LEAST FIVE WORKING DAYS PRIOR TO SCHEDULING.
- 17. ALL WATER HOUSE CONNECTION SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 18. EXCAVATED TRENCH LENGTH WILL BE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED IN ONE DAY, WHICHEVER IS SHORTER.
- 19. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES ON SHEET 5 AND IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL, VOL. IV.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

11-12-91

WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093

1, 11 / 11

	DES: WEA	<u></u>		
	DRN: J.I.b.			
a prosent his	CHK: DMA			
	DATE: 11/11/91	BY	NO.	REVISION

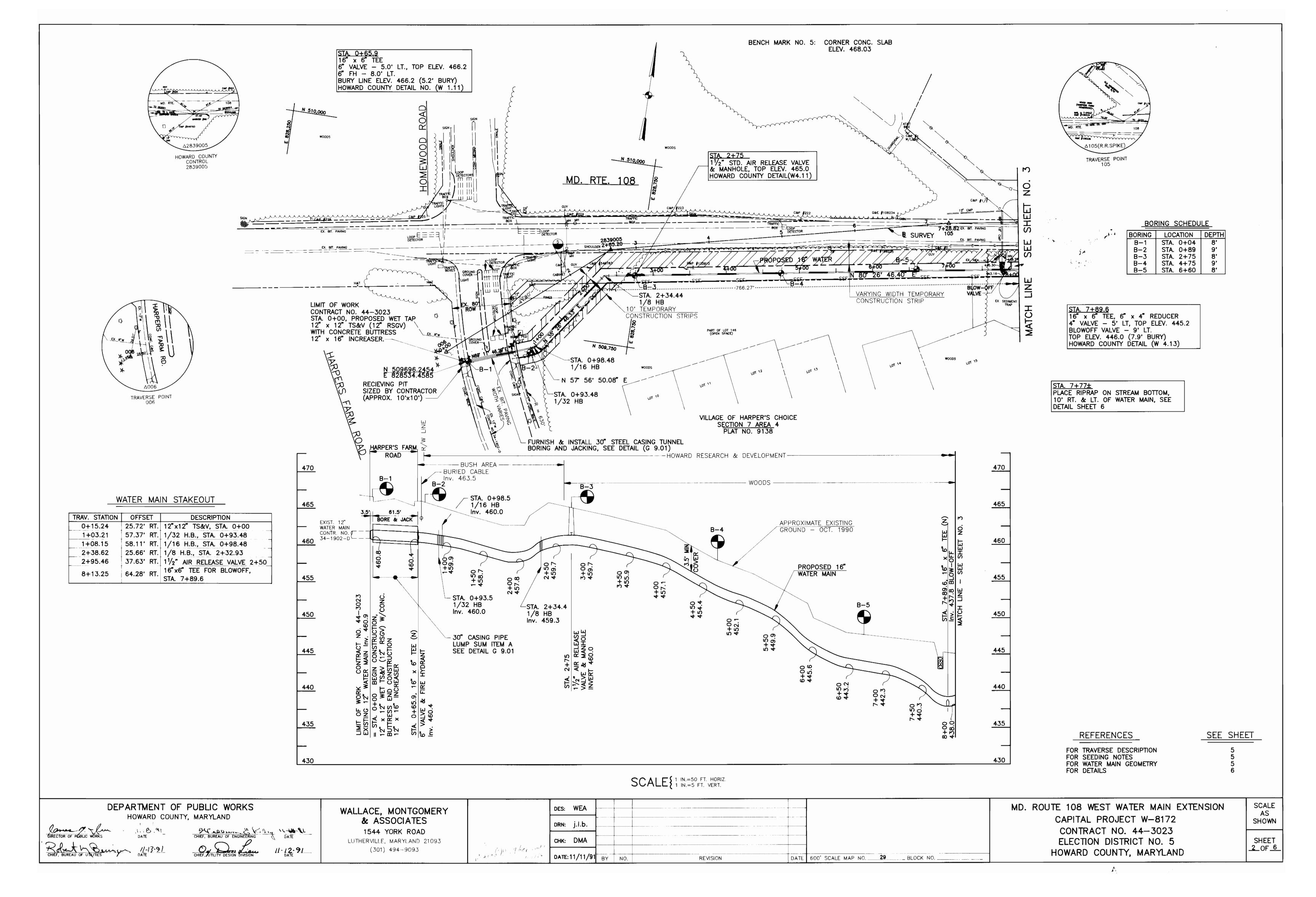
TITLE SHEET INDEX OF DRAWINGS GENERAL NOTES

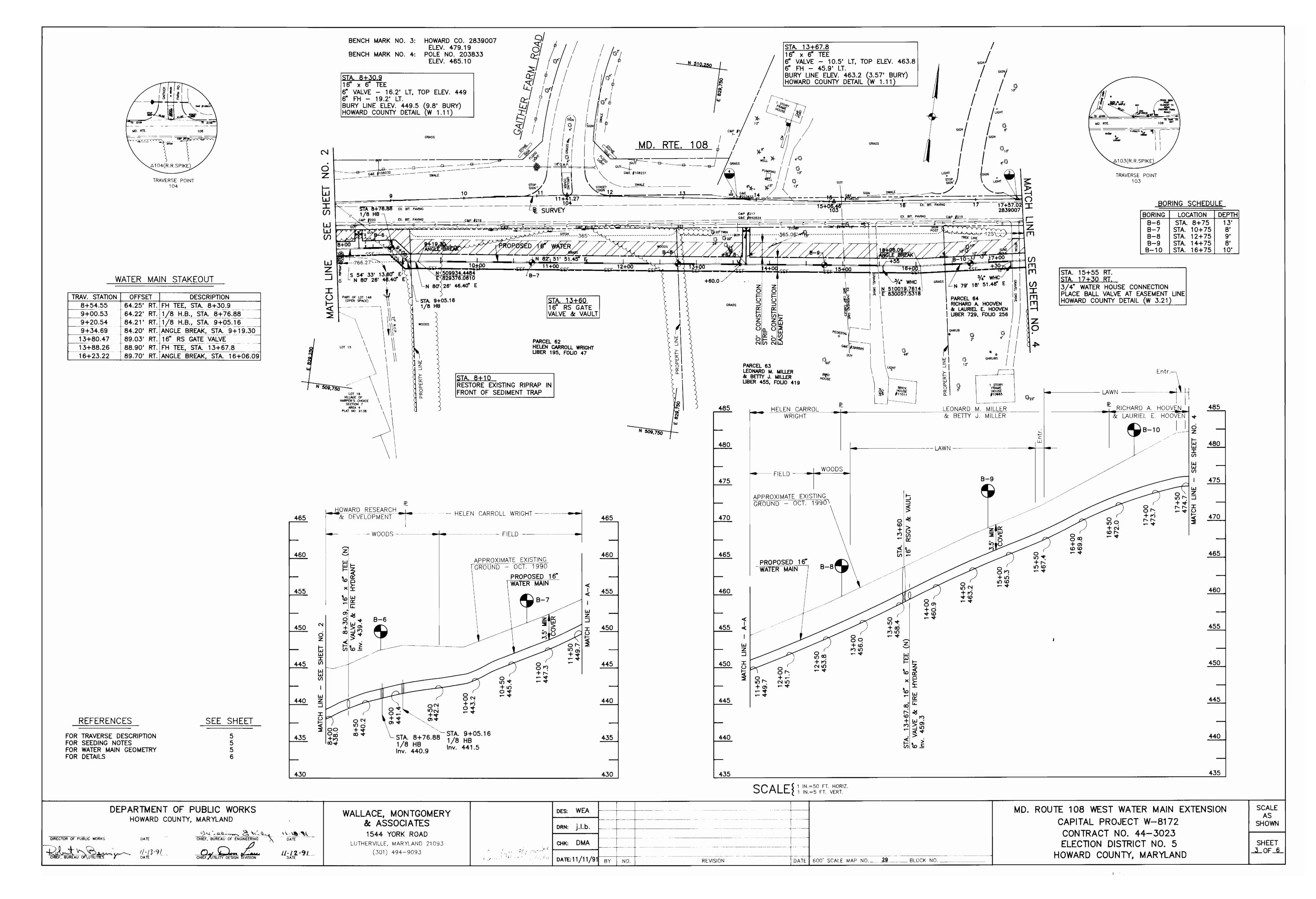
DATE 600' SCALE MAP NO. 29 BLOCK NO.

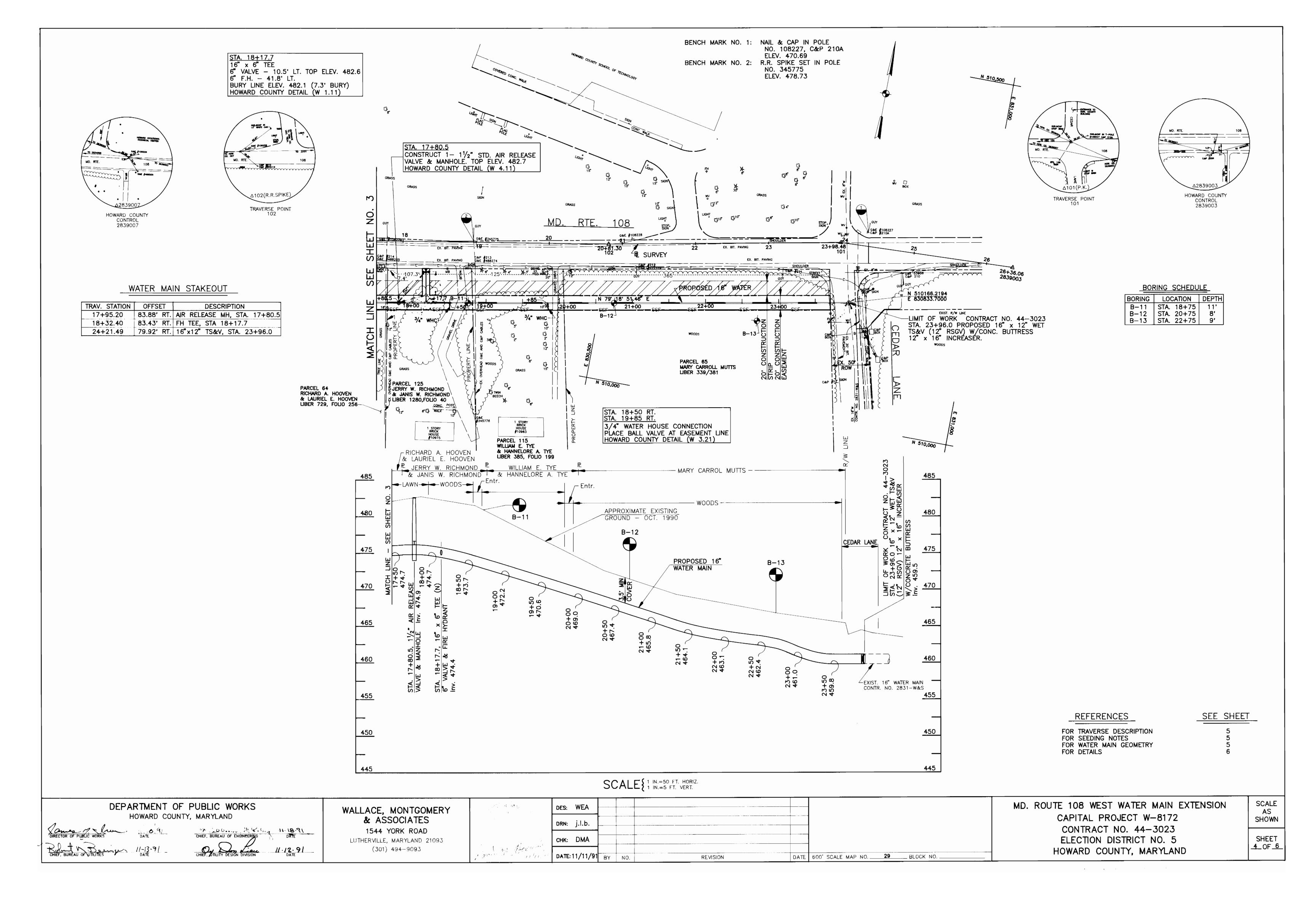
MD. ROUTE 108 WEST WATER MAIN EXTENSION CAPITAL PROJECT W-8172 CONTRACT NO. 44-3023 **ELECTION DISTRICT NO. 5** HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET <u> 1</u> 0F <u>6</u>







SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
- 2. LAYOUT ALIGNMENT AT SITE.
- 3. INSTALL SEDIMENT CONTROL DEVICE (SLOPE SILT FENCE) ON DOWN SLOPE SIDE OF NEW CONSTRUCTION.
- 4. EXCAVATE DITCH TO THE GRADE SPECIFIED ON THE PROFILE.
- 5. INSTALL WATER MAIN.
- 6. BACKFILL TRENCH AND RESURFACE WITH TEMPORARY BITUMINOUS PAVING WHERE NEEDED.
- 7. CLEAN UP CONSTRUCTION SITE.
- 8. REMOVE SEDIMENT CONTROL DEVICES AFTER PERMISSION IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR.

REST	DRATION SC	HEDULE
LOCATION	LENGTH	MATERIAL
STA. 0+00 TO STA. 0+04	4'	PERMANENT SEEDING
STA. 0+61 TO STA. 7+58	697'	PERMANENT SEEDING
STA. 7+75 TO STA. 7+78	3'	RIPRAP
STA. 7+78 TO STA. 8+60	7'	2" TOPSOIL AND SOD
STA. 8+60 TO STA. 15+37	677'	PERMANENT SEEDING
STA. 15+37 TO STA. 15+47	10'	GRAVEL
STA. 15+47 TO STA. 17+32	185'	PERMANENT SEEDING
STA. 17+32 TO STA. 17+42	10'	GRAVEL
STA. 17+42 TO STA. 18+60	118'	PERMANENT SEEDING
STA. 18+60 TO STA. 18+73	13'	GRAVEL
STA. 18+73 TO STA. 19+92	119'	PERMANENT SEEDING
STA. 19+92 TO STA. 19+99	7'	GRAVEL
STA. 19+99 TO STA. 23+76	377'	PERMANENT SEEDING
STA. 23+76 TO STA. 23+96	20'	PAVEMENT

	TF	RAVERSE DESCRIP	MOIT	
POINT NO.	NORTH	EAST	BEARING	DISTANCE
006	509705.8629	828506.1476		
			N 49° 24′ 43.0″ E	265.20'
2839005	509878.4034	828707.5391		
			N 76""D 54' 16.8" E	463.63'
105	509983.4479	829159.1075		
			N 80° 28′ 54.7″ E	412.45'
104	510051.6504	829565.8785		
			N 83° 45′ 2.6″ E	365.19'
103	510091.4031	829928.9005		
			N 81' 34' 50.6" E	250.56
2839007	510128.0893	830176.7618		
			N 80° 00' 38.5" E	324.28'
102	510184.3402	830496.1248		
			N 78' 57' 6.4" E	317.18
101	510245.1234	830807.4279		
			N 87° 38′ 49.3″ E	237.57
2839003	510254.8770	831044.7990		

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, DISKING 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) PREFERED APPLY 2 TONS PER ACRES 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 DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
- 2) <u>ACCEPTABLE</u> 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 DISK 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 AND 2 LBS PER ACRE (0.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, 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 SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOSLY LOOSENED.

SOIL AMENDMENTS - APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.).

<u>SEEDING</u> — FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 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 (0.07 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 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER OT THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR RATE AND METHODS NOT COVERED.

SEDIMENT CONTROL 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. (880-3450)
- 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 STANDARD 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.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPER 12. OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 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.
- SITE ANALYSIS:

 TOTAL AREA OF SITE

 AREA DISTURBED

 O.182

 AREA TO BE ROOFED OR PAVED

 AREA TO BE VEGETATIVELY STABILIZED

 TOTAL CUT

 TOTAL FILL

 OFFSITE WASTE/BORROW AREA LOCATION

 N.A.
- 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 DPW 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 PARIMETER 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.

PROPOSED 16" WATER GEOMETRY							
STATION	NORTH	EAST	BEARING	DISTANCE			
0+00	509696.2454	828534.4585					
			N 69° 11′ 46.3″ E	93.48'			
0+93.48	509729.4479	828621.8472					
			N 57' 56' 50.1" E	5.00'			
0+98.48	509732.1014	828626.0850					
			N 35° 26′ 46.3″ E	134.44'			
2+32.93	509841.6256	828704.0528					
			N 80° 26′ 46.4″ E	643.95'			
8+76.88	509948.5044	829339.0731					
			S 54° 33′ 13.6″ E	28.28'			
9+05.16	509932.1012	829362.1152					
			N 80° 26′ 46.4″ E	14.14'			
9+19.30	509934.4484	829376.0610					
			N 82° 51′ 51.4″ E	686.79'			
16+06.09	510019.7614	830057.5318					
			N 79" 18' 51.5" E	789.87			
23+95.96	510166.2194	830833.7000					

DEPARTMENT	OF PUBLIC	C WORKS
HOWARD CO	OUNTY, MARY	_AND

DR OF PUBLIC WORKS

DATE

CHIEF, BUREAU OF ENGINEERING

DATE

11-13-91

BUREAU OF UTILITY DESIGN DIVISION

DATE

WALLACE, MONTGOMERY
& ASSOCIATES

1544 YORK ROAD
LUTHERVILLE, MARYLAND 21093

(301) 494-9093

	DES:	WEA					
	DRN:	WEA					
,	CHK:	DMA					
continue thereinte	DATE:	11/11/91	BY	NO.	REVISION	DATE	600′

& TRAVERSE INFORMATION

SCALE MAP NO. 41 BLOCK NO. ____

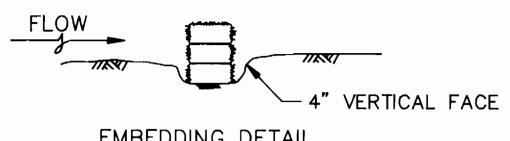
SEDIMENT CONTROL MEASURES

MD. ROUTE 108 WEST WATER MAIN EXTENSION
CAPITAL PROJECT W-8172
CONTRACT NO. 44-3023
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

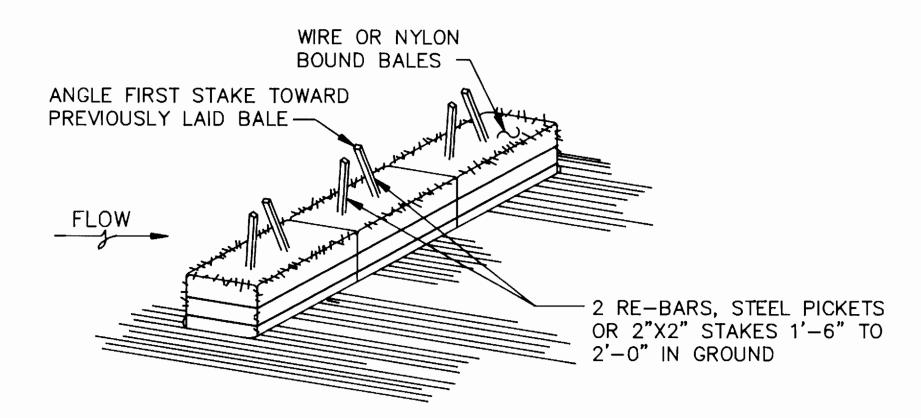
SCALE AS SHOWN

SHEET

<u>5</u> OF <u>6</u>



EMBEDDING DETAIL



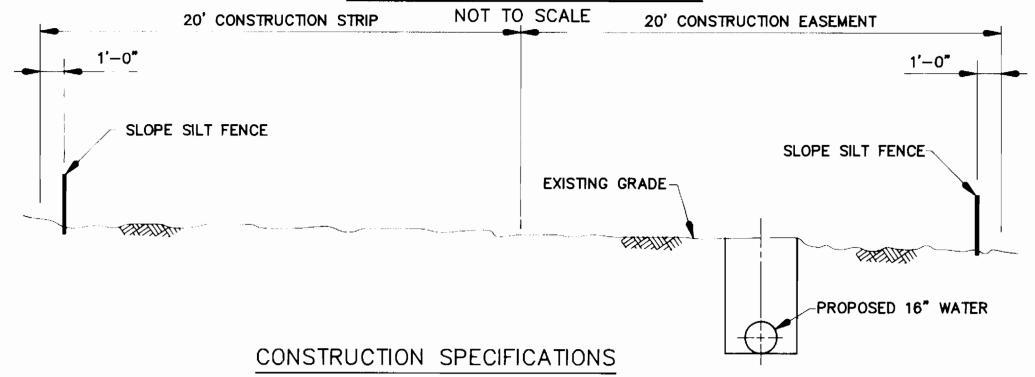
ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS

- 1. STRAW BALE DIKES ARE REQUIRED EVERY 250 FEET ON CONTINUOUS SLOPES OF 4% OR GREATER. THE DIKES SHALL CONFORM TO THE DETAIL SHOWN ABOVE AND SHALL BE CONSTRUCTED ACROSS THE CONSTRUCTION AREAS IMMEDIATELY AFTER THE BACKFILLING OF THE PIPE TRENCH AND PRIOR TO PLACING STABILIZATION IN ORDER TO PREVENT EROSION OF THE BACKFILLED AREAS.
- 2. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 3. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
- 4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THRU THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- 5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 6. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STANDARD SYMBOL - S.B.D. ---

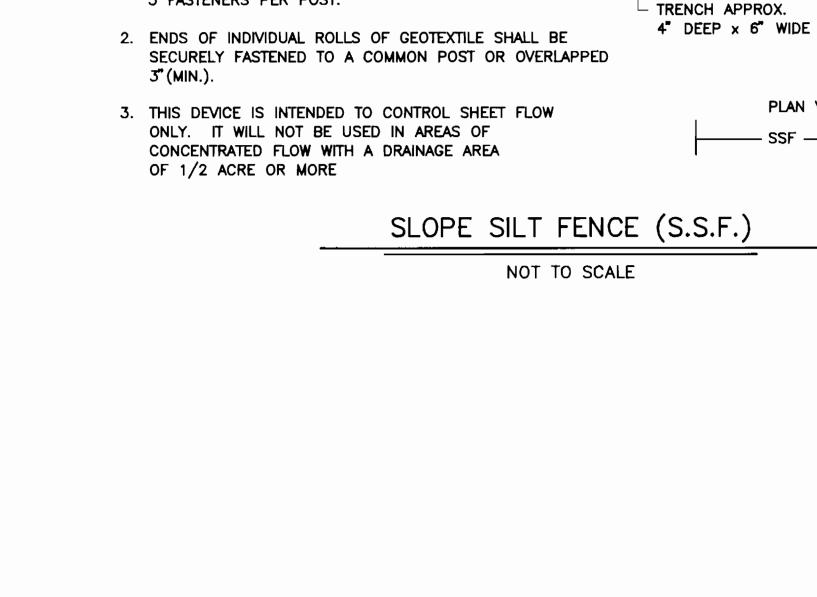
STRAW BALE DIKE DETAIL



- 1. GEOTEXTILE FABRIC TO BE FASTENED SECURELY TO FENCE POST BY USE OF WIRE TIES OR HOG RINGS. 3 FASTENERS PER POST.
- 2. ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE SHALL BE SECURELY FASTENED TO A COMMON POST OR OVERLAPPED 3' (MIN).
- 3. THIS DEVICE IS INTENDED TO CONTROL SHEET FLOW ONLY. IT WILL NOT BE USED IN AREAS OF CONCENTRATED FLOW WITH A DRAINAGE AREA OF 1/2 ACRE OR MORE.

SLOPE SILT FENCE PLACEMENT

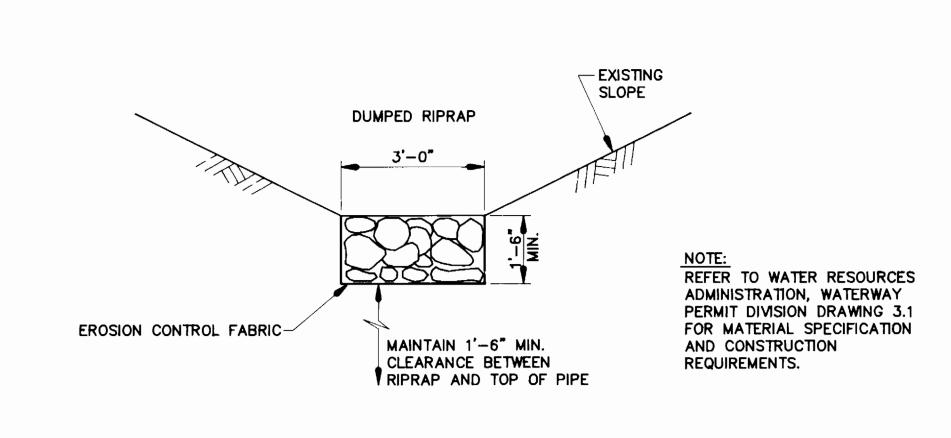
NOT TO SCALE



1. GEOTEXTILE FABRIC TO BE FASTENED SECURELY TO

3 FASTENERS PER POST.

FENCE POST BY THE USE OF WIRE TIES OR HOG RINGS,



PROVIDE 1" TUCK WITH ROPE

INTO GROUND.

FENCE POSTS SHALL BE ROUGH OR FINISHED $2'' \times 2''$ (NOMINAL) OR $2\frac{1}{2}''$ DIAMETER WOOD OR

SCHEDULE 40 METAL PIPE OR 1.33 LB./FT.

MINIMUM STANDARD T OR U SECTION STEEL, 42" MINIMUM LENGTH, DRIVEN 18" MINIMUM

GEOTEXTILE (CLASS F)

EMBED APPROX. 8 OF

GEOTEXTILE. BACKFILL

TRENCH WITH EARTH.

COMPACT THOROUGHLY.

PLAN VIEW SYMBOL

IN THE HEM

UNGROUTED RIPRAP DETAIL

NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

WALLACE, MONTGOMERY & ASSOCIATES 1544 YORK ROAD LUTHERVILLE, MARYLAND 21093 (301) 494-9093

DES: WEA DRN: WEA CHK: DMA DATE: 11/11/91 BY NO. REVISION DATE 600' SCALE MAP NO. 29 BLOCK NO.

DETAILS FOR PROPOSED WATER MAIN MD ROUTE 108 WATER EXTENSION CAPITAL PROJECT W-8172 CONTRACT NO. 44-3023 ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET _6_OF_6_