

HILL STREET AND TWENTY FOOT LANE

4-INCH WATER MAIN

CAPITAL PROJECT W-8698 Hi

CONTRACT NO. 44-4053

ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
	ESTIMATED	AS BUILT		
4" WATER MAIN	130 FT.	124 FT.	D.I.P.	ATLANTIC STATES
1" WATER	37 FT.	38 FT.	TYPE "K" COPPER TUBE	CAMBRIDGE LEE
6" x 4" TAPPING SLEEVE & VALVE	1	1	RESILIENT SEAT GATE VALVE	SMITH BLAIR

CONTRACTOR: W.F. WILSON AND SONS, INC.
 NOTE: SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH VOLUME 4, ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS.

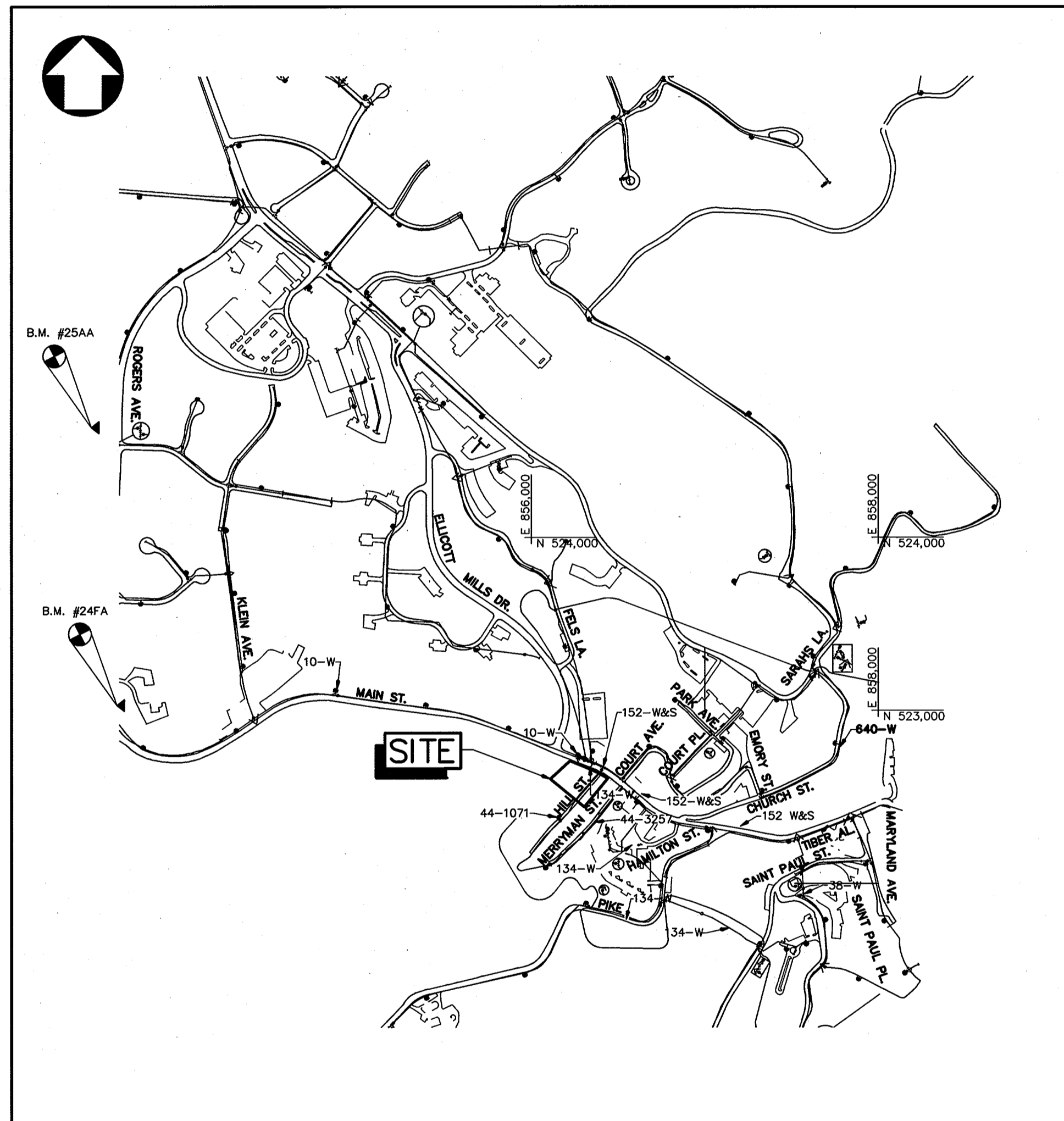
ENGINEER'S CERTIFICATION
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 DATE: 1/16/03
 WALLACE, MONTGOMERY & ASSOCIATES
 110 WEST ROAD - SUITE 345
 TOWSON, MARYLAND 21204
 (410) 494-9093

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE
 DATE: _____
 THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED DATE: _____
 HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER'S CERTIFICATION
 I 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.
 SIGNATURE OF DEVELOPER: _____ DATE: _____
 PRINT NAME BELOW SIGNATURE

MDE PERMIT NO. NOT APPLICABLE

NO.	ELEV.	NORTHING	EASTING	DESCRIPTION
25AA	308.398	585307.192	1366070.97	STANDARD CONCRETE MONUMENT ON NORTH WEST CORNER OF ROGERS AVE. & PATAPSCO RIVER ROAD, 7.0' WEST OF ROGERS AVE. EDGE OF PAVEMENT, 75' NE OF NE CORNER OF SD INLET, AND 36.9' NW OF MH.
24FA	263.569	583751.415	1366091.86	STANDARD CONCRETE MONUMENT ON EAST SIDE OF ROGERS AVE., 14.2' EAST OF EDGE OF PAVEMENT, 46.4' NW OF BG&E POLE #33641, 28.6' SW OF SAN. MH, AND 46.8' SW OF BG&E POLE #203395.



TYPE OF BUILDING: RESIDENTIAL
 NUMBER OF PARCELS: 04
 WATER HOUSE CONNECTIONS: 04
 DRAINAGE AREA: PATAPSCO
VICINITY MAP
 SCALE: 1" = 600'
 WATER CODE FOR COUNTY USE ONLY
 WATER NO. F04

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET TITLE SHEET
2	PLAN AND PROFILE SHEET
3	SEDIMENT CONTROL NOTES & DETAILS

GENERAL NOTES:

PART I

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. 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, NAD 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON NGVD 29.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 MONIES 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 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 LOCATIONS OF THE TEST PITS. 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T.....1-800-526-2000
 - BGE (CONTRACTOR SERVICES).....410-850-4620
 - BGE (UNDERGROUND DAMAGE CONTROL).....410-787-9068
 - BUREAU OF UTILITIES.....410-313-4900
 - BELL ATLANTIC MARYLAND, INC.....1-800-621-9900
 - COLONIAL PIPELINE CO.....410-795-1390
 - MISS UTILITY.....1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION.....410-531-5533
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

PART II WATER

- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- FIVE DAYS PRIOR TO TIE-IN CONNECTIONS, CONTACT THE HOWARD COUNTY BUREAU OF UTILITIES, 410-313-4900, FOR ASSISTANCE.

AS BUILT

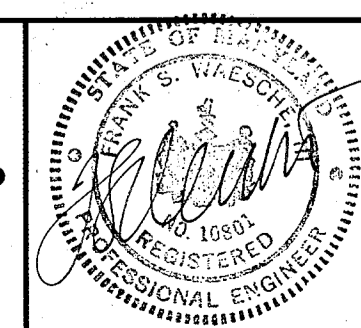
HILL STREET AND TWENTY FOOT LANE
 4-INCH WATER MAIN
 CAPITAL PROJECT W-8698 Hi
 CONTRACT No. 44-4053
 ELECTION DISTRICT No.2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 3

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

WALLACE, MONTGOMERY & ASSOCIATES, LLP
 CIVIL AND STRUCTURAL ENGINEERS
 110 WEST ROAD
 TOWSON, MARYLAND 21204

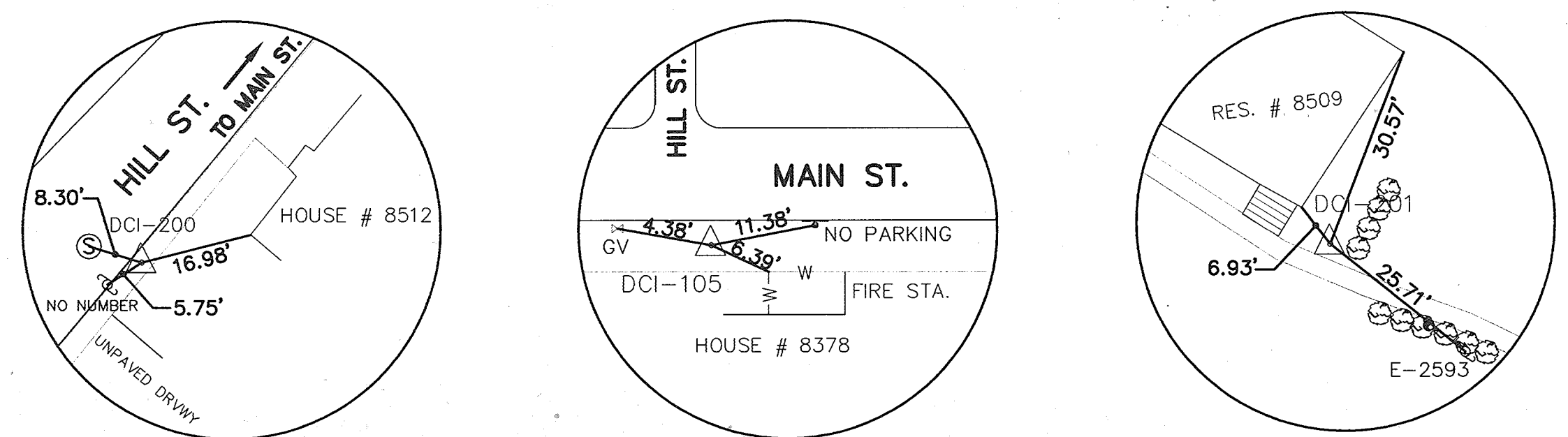


DES: W.C.W.	WM&A	AS BUILT 4-2-03 AND 7-18-03	8-03
DRN: S.D.H.			
CHK: L.A.F.			
DATE: DEC 2002	BY: NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 25 BLOCK NO. 7

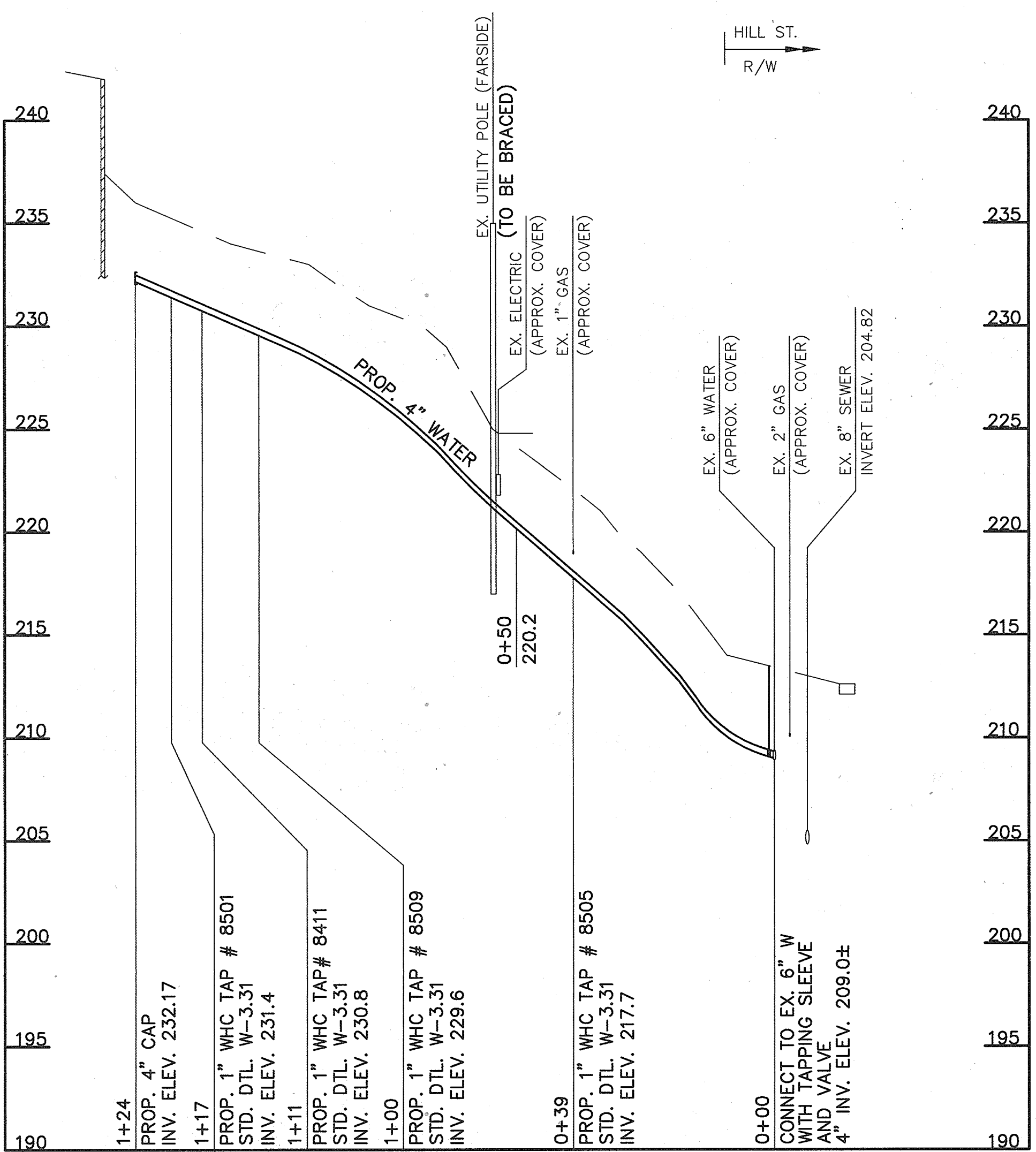
M:\PROJECTS\W-8698 Hi\AS BUILT\DWG



DCI-200 : X-CUT IN SIDEWALK
 NORTHING = 583268.0613
 EASTING = 1368740.8570
 ELEVATION = 212.12 FT.

DCI-105 : PK NAIL IN SIDEWALK
 NORTHING = 583429.6127
 EASTING = 1368863.6152
 ELEVATION = 186.37 FT.

DCI-201 : HUB & TACK
 NORTHING = 583316.6857
 EASTING = 1368657.7228
 ELEVATION = 232.08 FT.



PROFILE: TWENTY FOOT LANE
 SCALE: HORIZ: 1" = 20'
 VERT: 1" = 5'

0+20.5
 1" WHC WITH 3/4" OUTSIDE METER SETTING. SEE DETAIL W3.31. SEE CONSTRUCTION NOTE 3

0+05.5
 1" WHC WITH 3/4" OUTSIDE METER SETTING. SEE DETAIL W3.31. CONNECT TO EXISTING WATER SERVICE PIPE. SEE CONSTRUCTION NOTE 3

NEW METER VAULT CONNECTED TO EX. WATER SERVICE

0+11
 1" BALL VALVE CURB STOP SEE DETAIL W3.21. CONNECT TO EXISTING WATER SERVICE PIPE TO HOUSE. SEE CONSTRUCTION NOTE 3

0+39
 1" W.H.C. TAP CONNECT TO EXISTING METER VAULT, SEE CONSTRUCTION NOTE 3

1+11 = 0+00
 1" WHC TAP

1+17 = 0+00
 1" WHC TAP

1+24
 4" CAP

1+00 = 0+00
 1" WHC TAP

0+00
 6"x4" TAPPING SLEEVE & VALVE CONNECT TO EX. 6" W

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL LOCATE THE EXISTING WATER SERVICE PIPE ENTRY POINTS TO THE PROPERTIES OF #8501 AND #8509 HILL ST. AND #8411 MAIN ST. BY TEST PITS WELL IN ADVANCE OF CONSTRUCTION OF THE NEW WATER MAIN SO THAT PROPOSED WATER HOUSE CONNECTIONS MAY BE COORDINATED WITH EXISTING SERVICE PIPES.
2. EXISTING WATER SERVICES MUST REMAIN OPERATIONAL DURING CONSTRUCTION UNLESS TEMPORARY SERVICE SHUTDOWNS ARE ARRANGED AND COORDINATED BY THE CONTRACTOR WITH THE PROPERTY OWNERS.
3. THE FOUR EXISTING WATER SERVICE CONNECTIONS AT #8501, #8505 & #8509 HILL ST., AND #8411 MAIN ST., SHALL BE DISCONNECTED AND SEALED AFTER THE NEW WATER MAIN EXTENSION IS INSTALLED AND PLACED IN SERVICE. THE CONTRACTOR SHALL CAP AND ABANDON THE SERVICE CONNECTIONS AT THE HILL ST. MAIN AND SEAL WITH FULL CIRCLE REPAIR COUPLINGS. THE CONTRACTOR SHALL CAP AND ABANDON THE WATER SERVICE CONNECTION PIPES IN PLACE.
4. FOLLOWING COMPLETION OF THE CONTRACT, THE BUREAU OF UTILITIES WILL REMOVE THE EXISTING WATER METERS FOR #8411 MAIN ST. AND #8501 HILL ST. FROM THE RESPECTIVE METER VAULTS AND REPLACE THEM WITH JUMPER CONNECTIONS. THE BUREAU OF UTILITIES WILL ALSO CONVERT THE EXISTING INSIDE WATER METER SETTING FOR #8509 HILL ST. TO THE REMOTE READOUT TYPE.

PLAN
 SCALE: 1" = 20'

DURING CONSTRUCTION IT WAS FOUND THAT #8411 MAIN STREET AND #8501 HILL STREET SHARED A COMMON 1-INCH WATER SERVICE LINE THAT EXTENDED BEYOND THE LIMITS OF THE PUBLIC WATER EASEMENT. THE PROPERTY OWNERS WERE ADVISED TO INSTALL NEW SEPARATE CONNECTIONS TO THE NEW METER VAULTS FOR EACH PROPERTY.

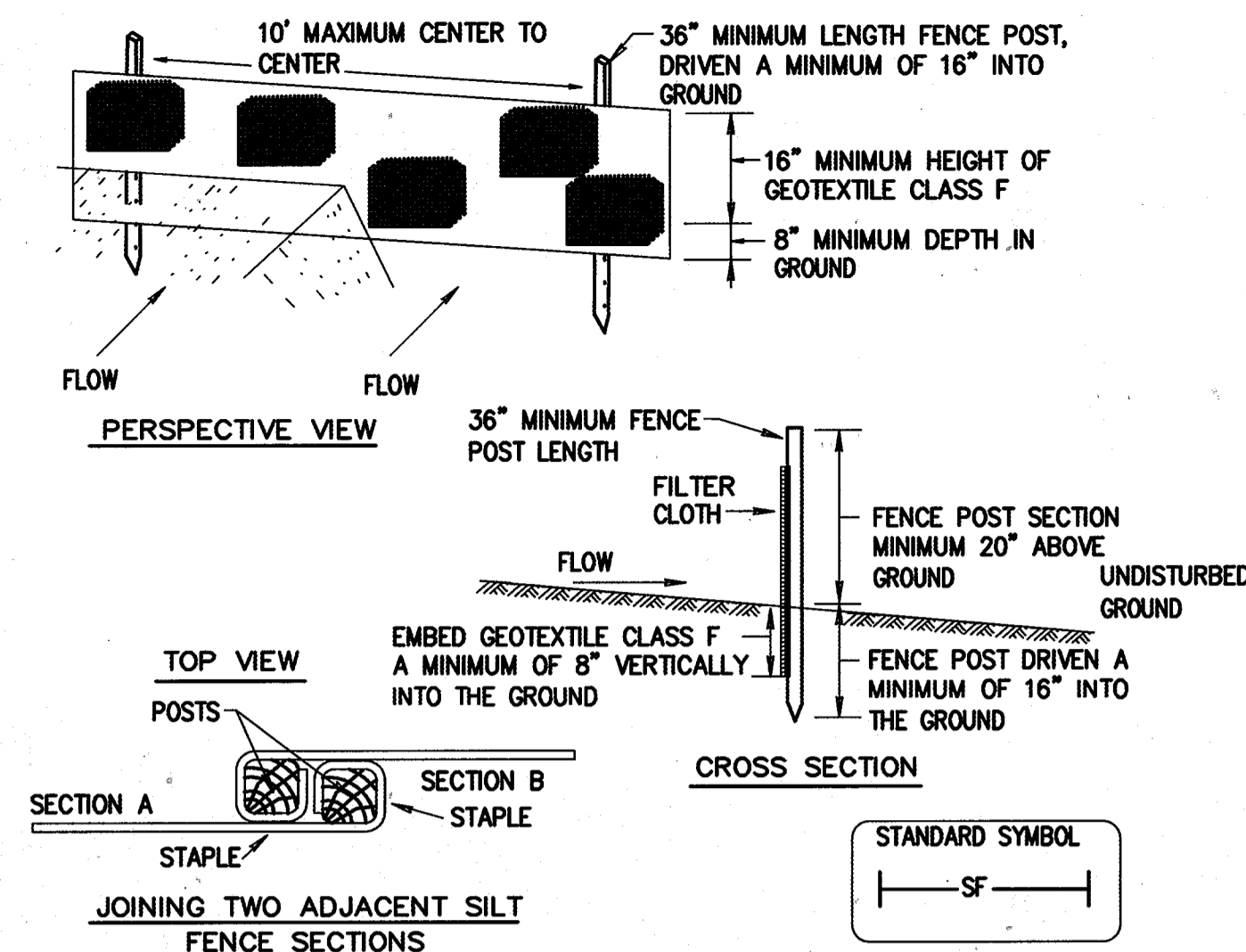
LEGEND

- WATER VALVE
- WATER METER
- ⊗ CLEAN OUT
- ⊙ SANITARY/SEWER MANHOLE
- ⊗ EXISTING TREE
- ⊗ EXISTING BUSH
- △ TRAVERSE POINT
- EXISTING UTILITY TO BE ABANDONED
- EXISTING WATER
- EXISTING SEWER
- EXISTING GAS
- R-O-W
- PROPERTY LINES

WATER MAIN STAKE-OUT TABLE			
STATION	DESCRIPTION	NORTH	EAST
4" WATER			
0+00	6" x 4" TS & V	583276.68	1368729.49
0+39	1" WHC TAP	583290.79	1368690.71
1+00=0+00	1" WHC TAP	583311.63	1368633.38
1+11=0+00	1" WHC TAP	583315.40	1368623.05
1+17=0+00	1" WHC TAP	583317.46	1368617.41
1+24	4" CAP	583319.83	1368610.83
1" WATER #8509			
0+00=1+00	1" WHC TAP	583311.63	1368633.38
0+11	1" CURB STOP	583321.72	1368637.06
1" WATER #8411			
0+00=1+11	1" WHC TAP	583315.40	1368623.05
0+20.5	3/4" METER SETTING	583329.12	1368615.20
1" WATER #8501			
0+00=1+17	1" WHC TAP	583317.46	1368617.41
0+05.5	3/4" METER SETTING	583312.30	1368615.53

AS BUILT REPLACEMENT SHEET

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>John A. ...</i> Chief, Bureau of Utilities: <i>John A. ...</i> 8-27-03	WALLACE, MONTGOMERY & ASSOCIATES, LLP CIVIL AND STRUCTURAL ENGINEERS 110 WEST ROAD TOWSON, MARYLAND 21204 Chief, Bureau of Engineering: <i>Paul J. ...</i> 8-21-03 Chief, Utility Design Division: <i>John A. ...</i> 8-21-03	DES: W.C.W. MM&A AS BUILT 4-02-03 AND 7-18-03 8-03 DRN: S.D.H. CHK: L.A.F. DATE: DEC 2002	HILL STREET AND TWENTY FOOT LANE 4-INCH WATER MAIN CAPITAL PROJECT W-8698 HI CONTRACT No. 44-4053 ELECTION DISTRICT No. 2 HOWARD COUNTY, MARYLAND PLAN AND PROFILE SHEET SCALE AS SHOWN SHEET 2 OF 3
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- CONSTRUCTION SPECIFICATIONS**
- FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" X 1 1/2" SQUARE (MINIMUM) CUT, OR 1 3/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 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.

SILT FENCE

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 PREVIOUSLY LOOSENED.

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

SEEDING - 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 TO THE "1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR RATE AND METHODS NOT COVERED.

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:

- PREFERRED** - 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.)
- 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 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.

SEQUENCE OF CONSTRUCTION

- CONTACT HOWARD COUNTY BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION (410-313-1880) PRIOR TO STARTING DATE. (4 DAYS)
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV. (1 DAY)
- EXCAVATE AND INSTALL PROPOSED 4" WATER MAIN. (4 DAYS)
FOR DISTURBED AREAS THAT DO NOT DRAIN TO A SEDIMENT CONTROL DEVICE, STABILIZE AREAS TO BE PAVED WITH GRADED AGGREGATE BASE COURSE AND GRASS AREAS WITH TOPSOIL, SEED, AND MULCH BY THE END OF EACH WORKING DAY.
- RESTORE TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS WITH TEMPORARY PAVING HOWARD COUNTY STANDARD SPECIFICATION. (1 DAY)
- UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTION, REMOVE SEDIMENT CONTROL DEVICES. (1 DAY)
- INSTALL PERMANENT PAVING PATCH OVER TRENCH. (1 DAY)

STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A.) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, B.) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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	=	0.068	ACRES
AREA DISTURBED	=	0.011	ACRES
AREA TO BE ROOFED OR PAVED	=	0.009	ACRES
AREA TO BE VEGETATIVELY STABILIZED	=	0.002	ACRES
TOTAL CUT	=	N/A	CU. YDS.
TOTAL FILL	=	N/A	CU. YDS.

 OFF SITE WASTE/BORROW AREA LOCATION: SITE WITH AN ACTIVE GRADING PERMIT AS APPROVED BY ENGINEERING.
- 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 CONTROL MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- PLACE EXCAVATED SOIL ON THE UPHILL SIDE OF THE TRENCHES.

RESTORATION NOTES:

- SAW CUT THE EXISTING BITUMINOUS PAVING, IN ACCORDANCE WITH STANDARD DETAIL G.4.01.
- REPAIR BITUMINOUS PAVING IN ACCORDANCE WITH STANDARD DETAIL R2.01, SECTION P-1.
- REPAIR CURB AND GUTTER IN ACCORDANCE WITH STANDARD DETAIL R 3.01 AND MATCH EXISTING CONDITIONS.
- REPAIR CONCRETE SIDEWALK IN ACCORDANCE WITH STANDARD DETAIL R 3.05 AND MATCH EXISTING CONDITIONS.

STATION	TO STATION	DISTANCE	MATERIAL
0+00	0+07	7.0 FT.	BITUMINOUS PAVING
0+07	0+37	30.0 FT.	SEED
0+37	0+95	58.0 FT.	BITUMINOUS PAVING
0+95	1+30	35.0 FT.	IN-KIND REPLACEMENT (GRAVEL)
0+00=0+45	0+10	10.0 FT.	BITUMINOUS PAVING
0+00=1+06	0+11	11.0 FT.	IN-KIND REPLACEMENT (GRAVEL)
0+00=1+17	0+10.5	12.5 FT.	IN-KIND REPLACEMENT (GRAVEL)
0+00=1+23	0+05.5	5.5 FT.	IN-KIND REPLACEMENT (GRAVEL)

AS BUILT

HILL STREET AND TWENTY FOOT LANE
4-INCH WATER MAIN
CAPITAL PROJECT W-8698 HI
CONTRACT No. 44-4053
ELECTION DISTRICT No.2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 3

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

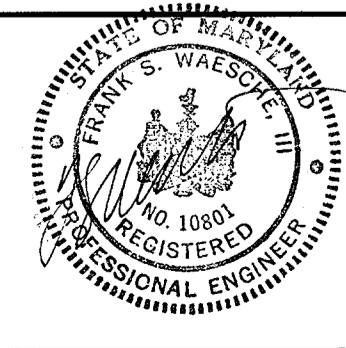
James A. Lewis 1/16/03
DIRECTOR OF PUBLIC WORKS DATE

Paul E. Brown 1/16/03
CHIEF, BUREAU OF ENGINEERING DATE

John J. ... 1-21-03
CHIEF, BUREAU OF UTILITIES DATE

... 1-13-03
CHIEF, UTILITY DESIGN DIVISION DATE

WALLACE, MONTGOMERY & ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 WEST ROAD
TOWSON, MARYLAND 21204



DES: W.C.W.	WM/A	AS-BUILT 4-2-03 AND 7-18-03	8-03
DRN: S.D.H.			
CHK: L.A.F.			
DATE: DEC 2002	BY NO.	REVISION	DATE

SEDIMENT CONTROL NOTES & DETAILS

600' SCALE MAP NO. 25 BLOCK NO. 7

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