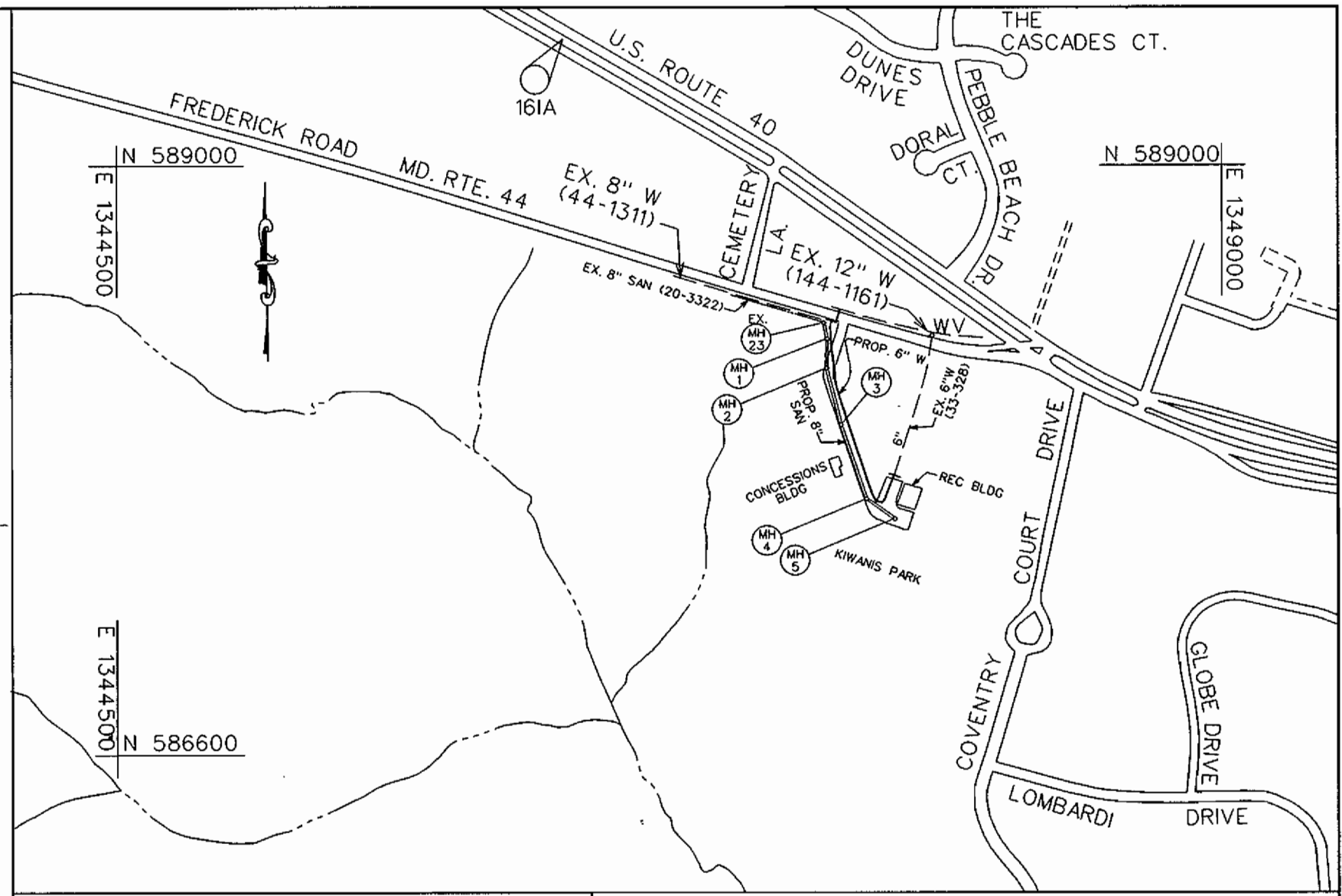
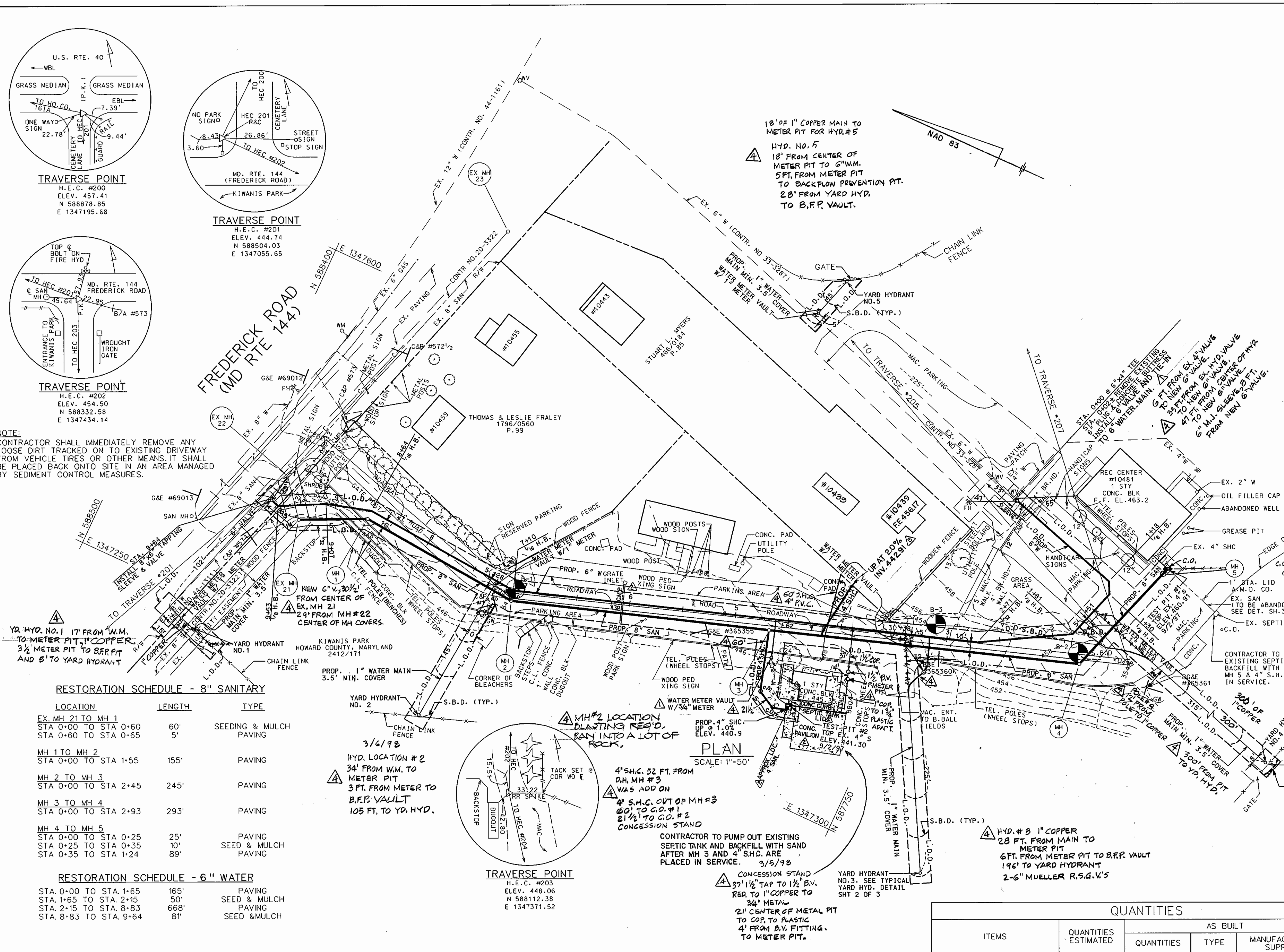


AS BUILT MAY 26, 1998



TYPE OF BUILDINGS: REC. CNTR. & CONCESSIONS BLDG.
 NO. OF SEWER HOUSE CONN.: 2
 NO. OF WATER HOUSE CONN.: 6
 SEWER CODE: 5883400
 WATER CODE: J01
 DRAINAGE AREA: LITTLE PATUXENT

VICINITY MAP
 SCALE: 1"=600'

GENERAL NOTES

- Approximate location 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.
- All vertical controls are based on U.S.C.S. data.
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- Clear all utilities by a minimum of 6". Clear all poles by 5'-0" minimum or tunnels 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.
- 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 \boxtimes 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.
- The Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
 - AT&T 410-865-3803
 - BGE - Contractor Services 410-850-4620
 - BGE - Underground Damage Control 410-787-9068
 - Bureau of Utilities (DPW) 410-313-4900
 - Bell Atlantic - MD, Inc. 410-597-8585
 - 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 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) 313-2450 at least five working days before any open cut of any County road or trenchless installation 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 8.114(a) of the Howard County Code.

WATER NOTES

- 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. 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.

SEWER NOTES

- All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
- 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 watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are 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 cellar cannot be served.

NOTE:
 CONTRACTOR SHALL IMMEDIATELY REMOVE ANY LOOSE DIRT TRACKED ON TO EXISTING DRIVEWAY FROM VEHICLE TIRES OR OTHER MEANS. IT SHALL BE PLACED BACK ONTO SITE IN AN AREA MANAGED BY SEDIMENT CONTROL MEASURES.

RESTORATION SCHEDULE - 8" SANITARY

LOCATION	LENGTH	TYPE
EX. MH 21 TO MH 1 STA 0+00 TO STA 0+80	60'	SEEDING & MULCH
STA 0+60 TO STA 0+65	5'	PAVING
MH 1 TO MH 2 STA 0+00 TO STA 1+55	155'	PAVING
MH 2 TO MH 3 STA 0+00 TO STA 2+45	245'	PAVING
MH 3 TO MH 4 STA 0+00 TO STA 2+93	293'	PAVING
MH 4 TO MH 5 STA 0+00 TO STA 0+25	25'	PAVING
STA 0+25 TO STA 0+35	10'	SEED & MULCH
STA 0+35 TO STA 1+24	89'	PAVING

RESTORATION SCHEDULE - 6" WATER

LOCATION	LENGTH	TYPE
STA 0+00 TO STA 1+65	165'	PAVING
STA 1+65 TO STA 2+15	50'	SEED & MULCH
STA 2+15 TO STA 8+83	668'	PAVING
STA 8+83 TO STA 9+64	81'	SEED & MULCH

THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 [Signature] 10/3/97 DATE
 APPROVED, HOWARD COUNTY S.C.D.

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 [Signature] 10/3/97 DATE
 U.S. NATURAL RESOURCES CONSERVATION SERVICE

DEVELOPER'S CERTIFICATION:
 "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 CERTIFICATION OF ATTENDANCE AT A MARYLAND DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
 [Signature] 9/29/97 DATE
 BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS.

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 CONSERVATION DISTRICT."
 [Signature] 9/26/97 DATE
 HICKS ENGINEERING COMPANY, INC.
 ENGINEERS SURVEYORS & PLANNERS
 200 EAST JOPPA ROAD, SUITE 402
 TOWSON, MARYLAND 21286 TEL (410) 494-0001

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] 10/1/97 DATE
 DIRECTOR OF PUBLIC WORKS

[Signature] 9/29/97 DATE
 CHIEF, BUREAU OF ENGINEERING

[Signature] 9-29-97 DATE
 CHIEF, WATER & SEWER DESIGN DIV.

HICKS ENGINEERING CO., INC.
 ENGINEERS, SURVEYORS & PLANNERS
 200 EAST JOPPA ROAD - SUITE 402
 TOWSON, MARYLAND 21286-3170
 (410) 494-0001

DES: F.W. F.W. [Signature] D.R.W. COMMENTS 10/2/97
 DRN: D.A.R. F.W. [Signature] ADDED 18" CMP TO PLAN (STA. 6+07) ADDED SEPTIC TANK LID 10/20/97
 CHK: D.E.H. F.W. [Signature] MOVED 4" SAN. LOC. & ADDED CONC. PAVILION. 2/1/98
 DATE: 8/1/97 BY NO. [Signature] ADDED 60 L.F. S.H.C. FOR #10499 11/13/97
 REVISION 60 AS-BUILT COMMENTS 6/11/98

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" SEWER MAIN	862 L.F.	881 L.F.	P.V.C.	J-M MAN. / BELAIR RD. SUPPLY
4" S.H.C.	105 L.F.	147 L.F.	P.V.C.	" " " " " "
4'-0" DIA. MH	5 EA.	4	PRE-CAST	" " " " " "
4'-0" DIA. MH OVER 6' DEPTH	16 V.F.	4	PRE-CAST	ATLANTIC PRECAST / BELAIR RD. SUPPLY
6" W/3/4" METER	38 EA.	1	BRICK	BUILT ON SITE
1" W/C/MV	6 EA.	6 EA.	FORD METER / BELAIR RD. SUPPLY	" " " " " "
6" WATER MAIN	964 L.F.	964 L.F.	U.S. PIPE / BELAIR RD. SUPPLY	" " " " " "
6" VALVE	2 EA.	2	MUELLER	" " " " " "
8"x6" TAPPING SLEEVE	1 EA.	1	U.S. PIPE	" " " " " "
YARD HYDRANT	5 EA.	5	ZURN IND.	" " " " " "
1" COPPER PIPE	781 L.F.	602 L.F.	K-COPPER	" " " " " "
1 1/2" COPPER PIPE	37 L.F.	37 L.F.	K-COPPER	" " " " " "
1 1/2" BALL VALVE	1 EA.	1 EA.	MUELLER	" " " " " "

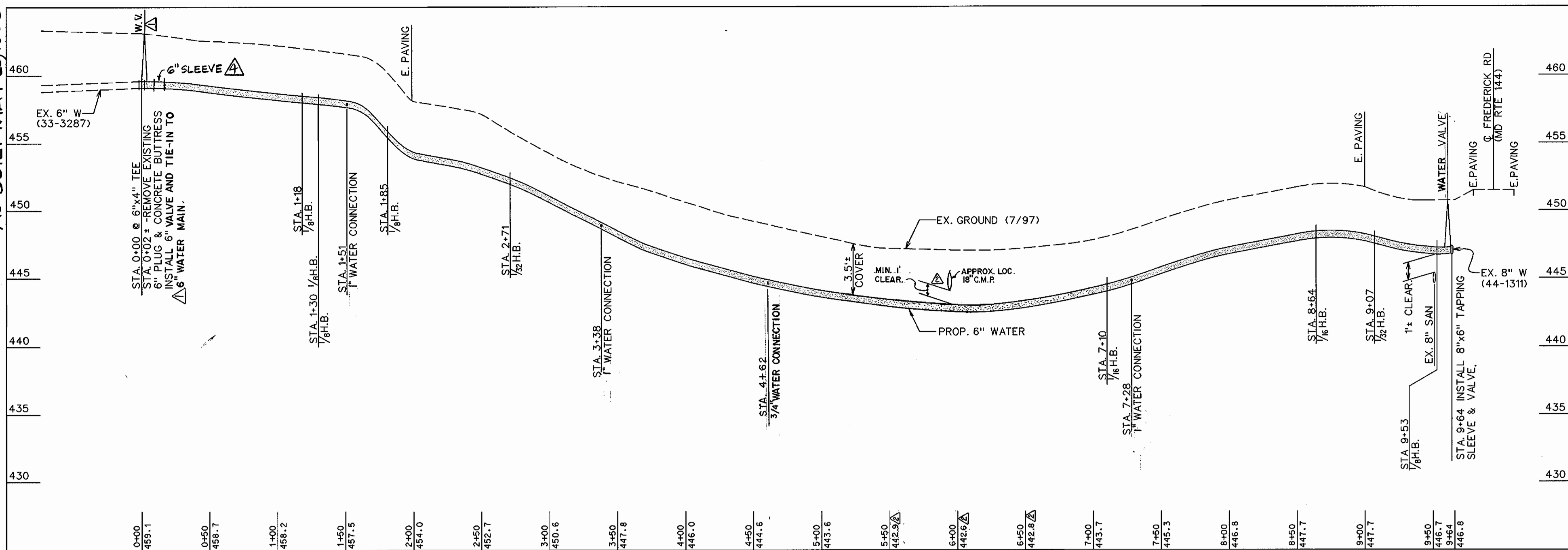
PLAN & PROFILE
 6" WATER MAIN
 8" SEWER MAIN

KIWANIS RECREATION CENTER
 WATER & SEWER MAINS
 3TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CAPITAL PROJECT N-3945
 CONTRACT NO. 24-3638

SCALE AS SHOWN
 SHEET 1 OF 3

AS BUILT MAY 26, 1998

AS BUILT MAY 26, 1995



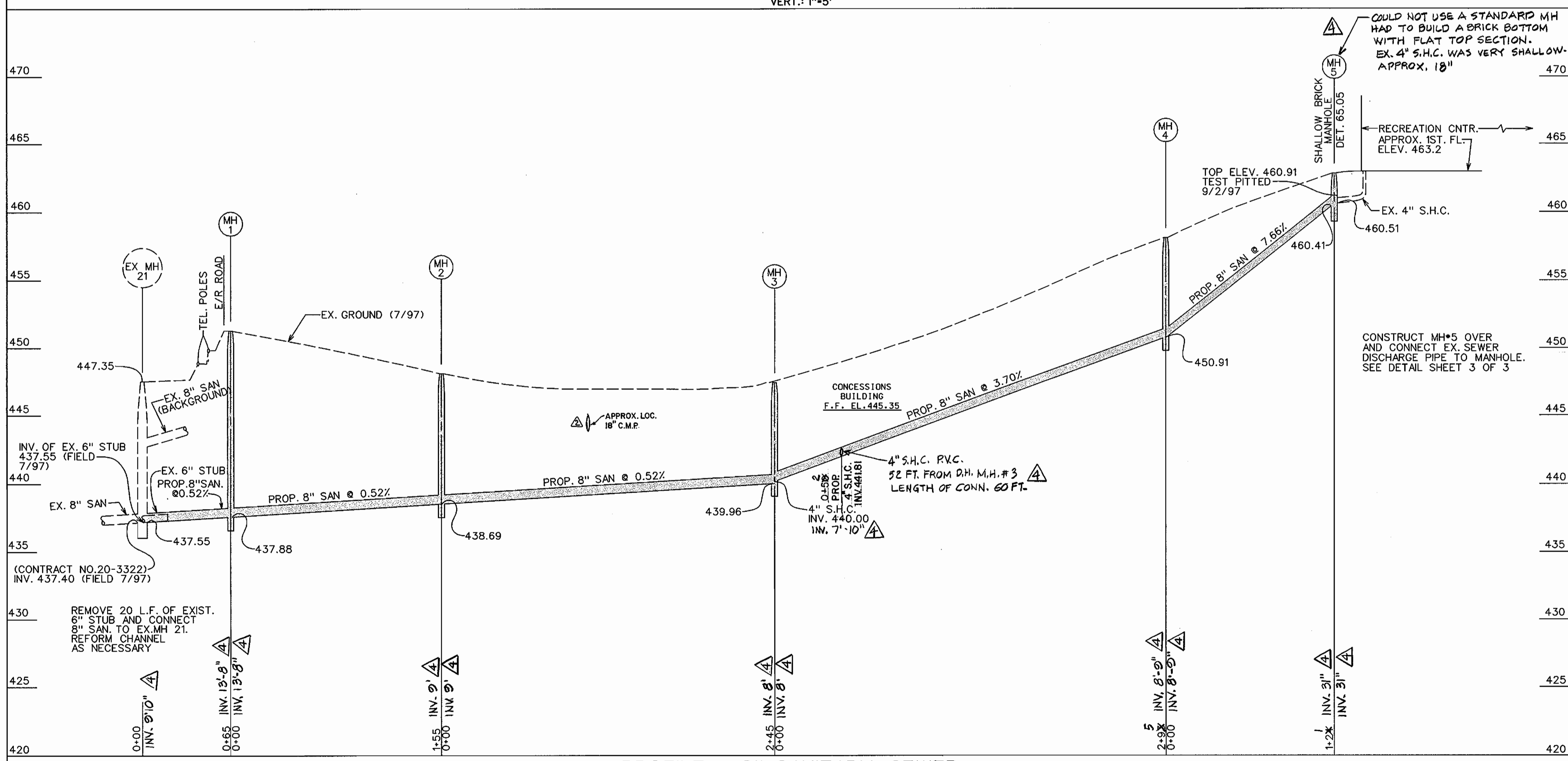
PROFILE - 6" WATER
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'

STAKEOUT DATA FOR
8" SEWER MAIN

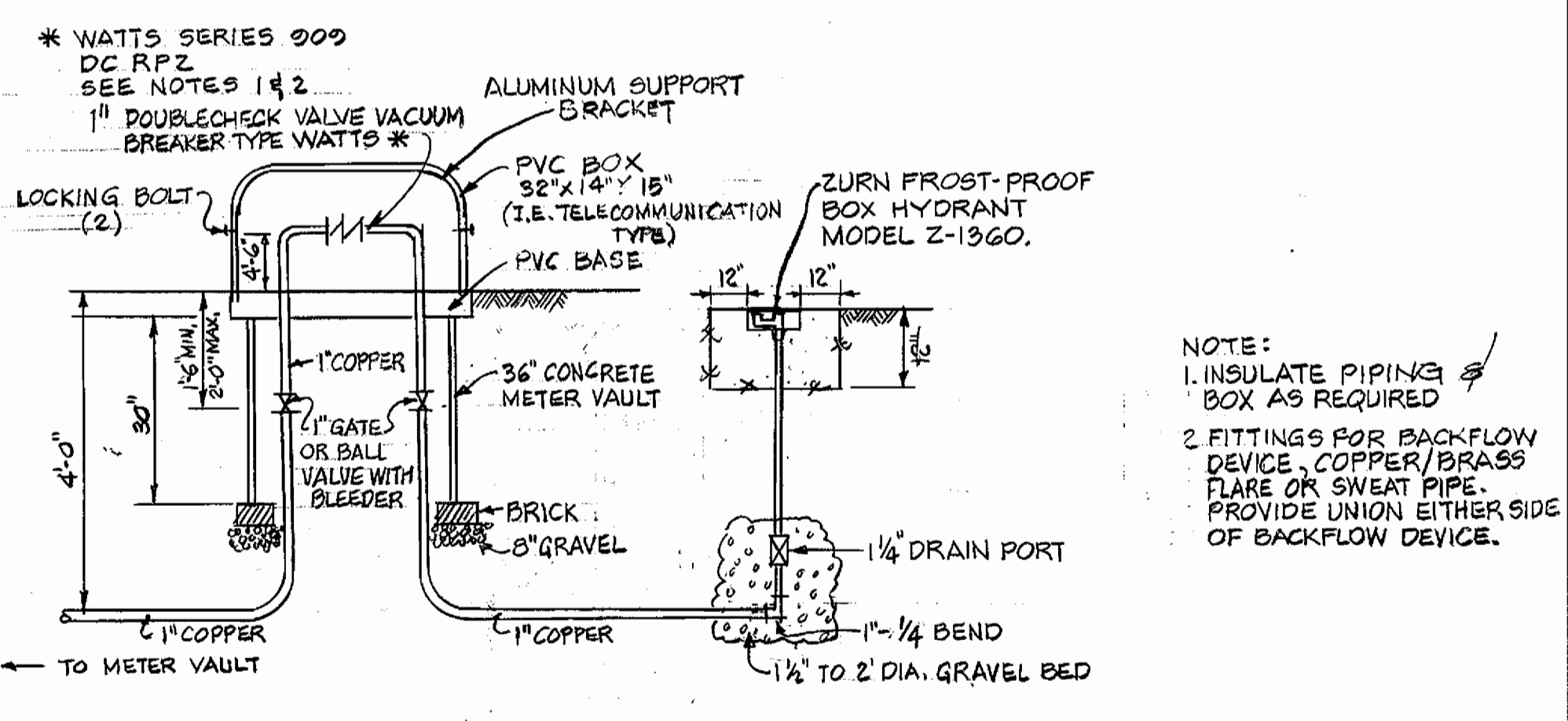
MAIN FITTING	DISTANCE	OFFSET
MH #1	HEC *202 TO HEC *203-78'	31' RT.
MH #2	HEC *203 TO HEC *204-0'	3' RT.
MH #3	HEC *203 TO HEC *204-245'	4' RT.
MH #4	HEC *204 TO HEC *203-47'	5' LT.
MH #5	HEC *204 TO HEC *207-75'	62' RT.

STAKEOUT DATA FOR
6" WATER MAIN

MAIN FITTING	DISTANCE	OFFSET
STA 0-00 6"x6" TEE	HEC*204 TO HEC*205-189'	20' RT.
STA 1-18 1/8 H.B.	HEC*204 TO HEC*205-72'	36' RT.
STA 1-30 1/8 H.B.	HEC*204 TO HEC*205-62'	29' RT.
STA 1-81 1/8 H.B.	HEC*204 TO HEC*203-56'	23' RT.
STA 2-71 1/2 H.B.	HEC*204 TO HEC*203-144'	6' RT.
STA 7-10 1/8 H.B.	HEC*203 TO HEC*202-3'	7' RT.
STA 8-64 1/6 H.B.	HEC*203 TO HEC*202-152'	23' LT.
STA 9-07 1/2 H.B.	HEC*202 TO HEC*201-40'	45' LT.
STA 9-53 1/8 H.B.	HEC*202 TO HEC*201-75'	18' LT.
STA 9-63 8"x6" TAPPING SLEEVE & VALVE	HEC*202 TO HEC*201-76'	9' LT.



PROFILE - 8" SANITARY SEWER
SCALE: HORZ.: 1"=50'
VERT.: 1"=5'



NOTE:
1. INSULATE PIPING & BOX AS REQUIRED
2. FITTINGS FOR BACKFLOW DEVICE, COPPER/BRASS FLARE OR SWEAT PIPE. PROVIDE UNION EITHER SIDE OF BACKFLOW DEVICE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS DATE 10/2/97
CHIEF, BUREAU OF ENGINEERING DATE 2/22/97
CHIEF, BUREAU OF UTILITIES DATE 12-1-97
CHIEF, WATER & SEWER DESIGN DIV. DATE 9-29-97

HICKS ENGINEERING CO., INC.
ENGINEERS, SURVEYORS & PLANNERS
200 EAST JOPPA ROAD - SUITE 200
TOWSON, MARYLAND 21286-3160
(410) 494-0001

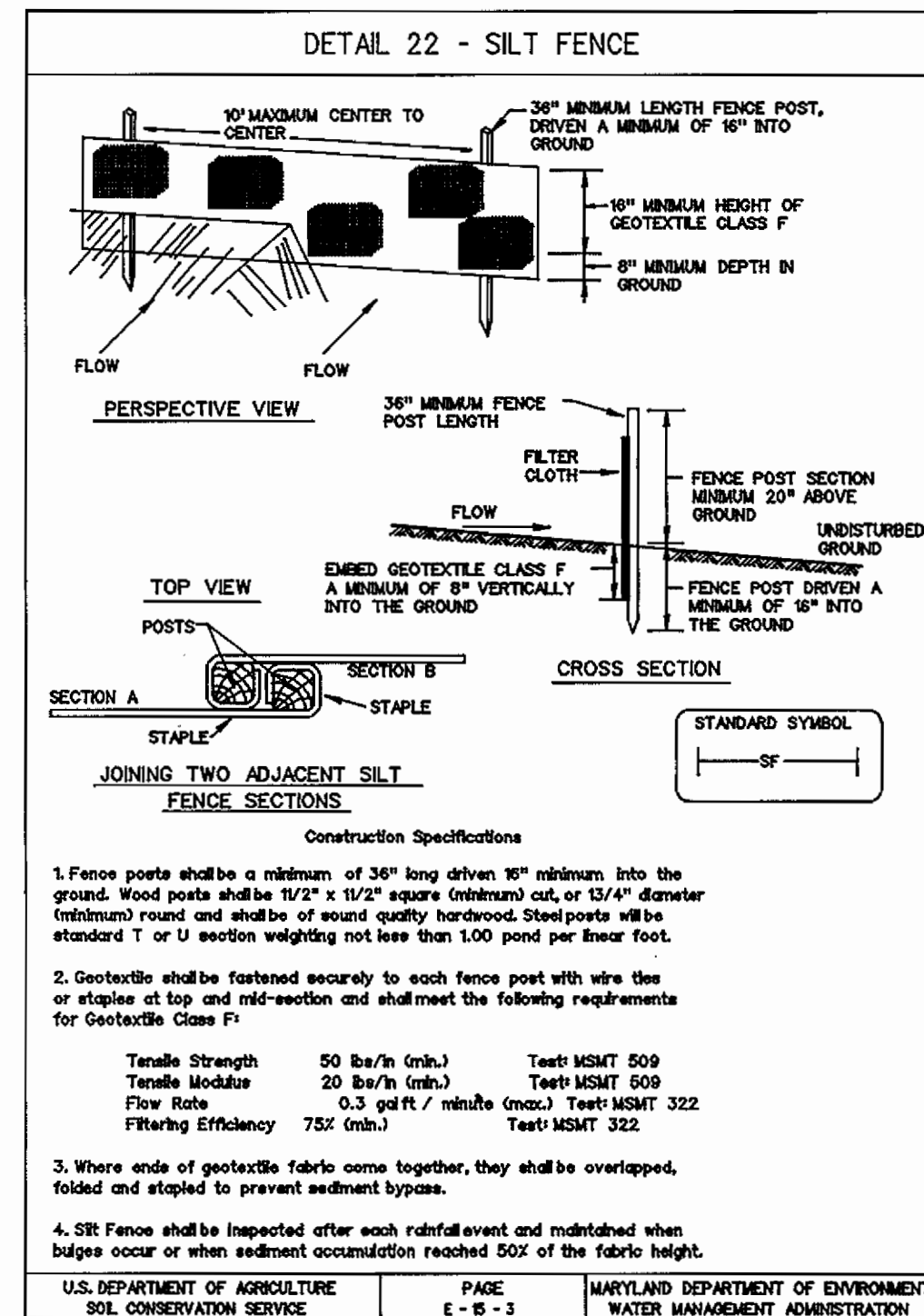
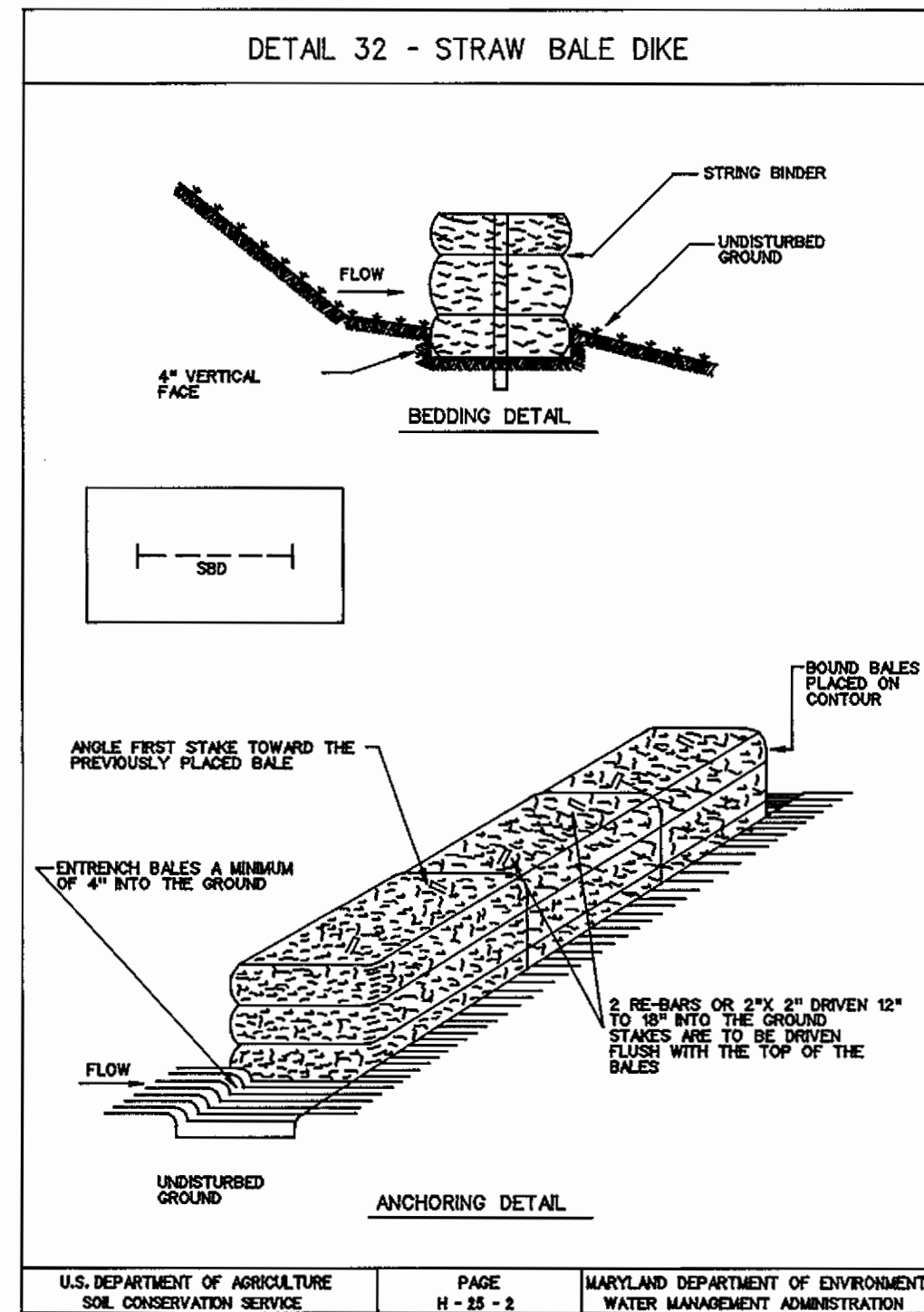
DES:	F.W.	DATE	D.P.W. COMMENTS	DATE
DES:	F.W.	10/9/97	ADDED 18" C.M.P. TO W&S PROFILES.	10/20/97
DRN:	D.A.R.	11/12/97	ADDED 4" S.H.C.	6/11/98
CHK:	D.E.H.		AS-BUILT COMMENTS	
DATE:	8/1/97			

PLAN & PROFILE
6" WATER MAIN
8" SEWER MAIN
600' SCALE MAP NO. W 23 BLOCK NO. 6

KIWANIS RECREATION CENTER
WATER & SEWER MAINS
3TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT N-3945
CONTRACT NO. 24-3638
SCALE AS SHOWN
SHEET 2 OF 3

AS BUILT MAY 26, 1995

AS BUILT MAY 26, 1998



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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

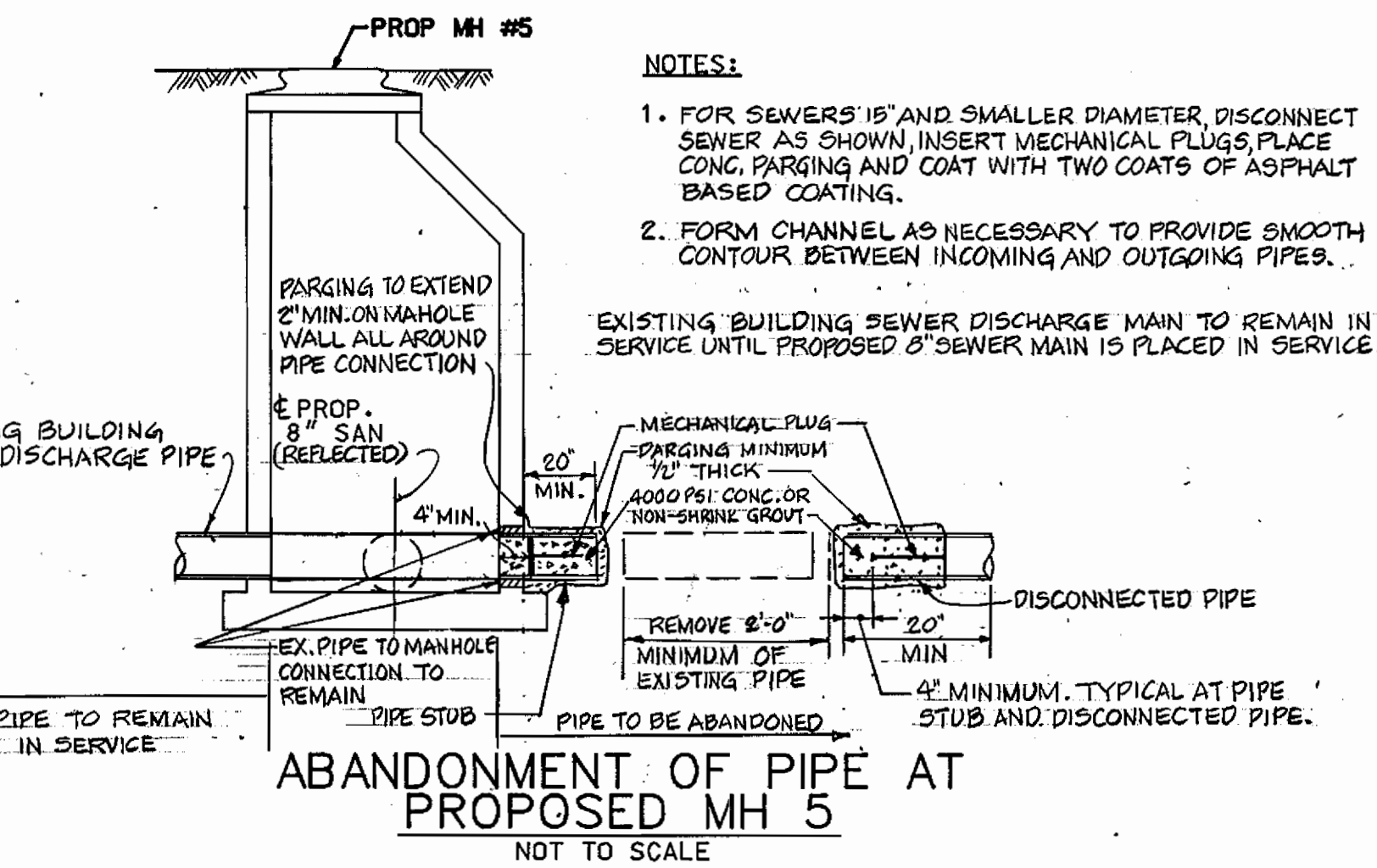
SOIL AMMENDMENTS: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 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.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 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 (.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 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

- UTILITY NOTES**
- OPEN DAILY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY.
 - PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
 - ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.
- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION PRIOR TO THE START OF ANY CONSTRUCTION. (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.
 - 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 SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDING AND MULCHING. 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 N/A ACRES
AREA DISTURBED ACRES±
AREA TO BE ROOFED OR PAVED ACRES±
AREA TO BE VEGETATIVELY STABILIZED ACRES±
TOTAL CUT CU. YDS.
TOTAL FILL CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION-TO BE DETERMINED BY THE CONTRACTOR.
 - 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 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.



- NOTES:**
- FOR SEWERS 18" AND SMALLER DIAMETER, DISCONNECT SEWER AS SHOWN, INSERT MECHANICAL PLUGS, PLACE CONC. PAVING AND COAT WITH TWO COATS OF ASPHALT BASED COATING.
 - FORM CHANNEL AS NECESSARY TO PROVIDE SMOOTH CONTOUR BETWEEN INCOMING AND OUTGOING PIPES...
- EXISTING BUILDING SEWER DISCHARGE MAIN TO REMAIN IN SERVICE UNTIL PROPOSED 8" SEWER MAIN IS PLACED IN SERVICE.

SEQUENCE OF CONSTRUCTION

	TIME OF COMPLETE
1. OBTAIN A GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS.	0.5 WEEKS
2. CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION (313-1880) PRIOR TO STARTING DATE.	0.5 WEEKS
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV.	1.0 WEEKS
4. EXCAVATE AND INSTALL PROPOSED 6" WATER MAIN & 8" SEWER MAIN.	6.0 WEEKS
5. RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS.	2.0 WEEKS
6. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES.	0.5 WEEKS
7. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.	0.5 WEEKS

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 AMMENDMENTS: 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 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 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 (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 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 1.5 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.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 2/29/97
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 2/29/97
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 2-29-97
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 2-29-97
CHIEF, WATER & SEWER DESIGN DIV. DATE

HICKS ENGINEERING CO., INC.
ENGINEERS, SURVEYORS & PLANNERS
200 EAST JOPPA ROAD, SUITE 102
TOWSON, MARYLAND 21286-3160
(410) 494-0001

[Signature]
PROFESSIONAL ENGINEER

DES: F.W.	FW	△	D.R.W. COMMENTS	10/9/97
DRN: D.A.R.				
CHK: D.E.H.				
DATE: 8/1/97	BY	NO.	REVISION	DATE

600' SCALE MAP NO. S 23 & W 23 BLOCK NO. 6

DETAIL SHEET

KIWANIS RECREATION CENTER WATER & SEWER MAINS
3TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT N-3945
CONTRACT NO. 24-3638

SCALE AS SHOWN
SHEET 3 OF 3

AS BUILT MAY 26, 1998