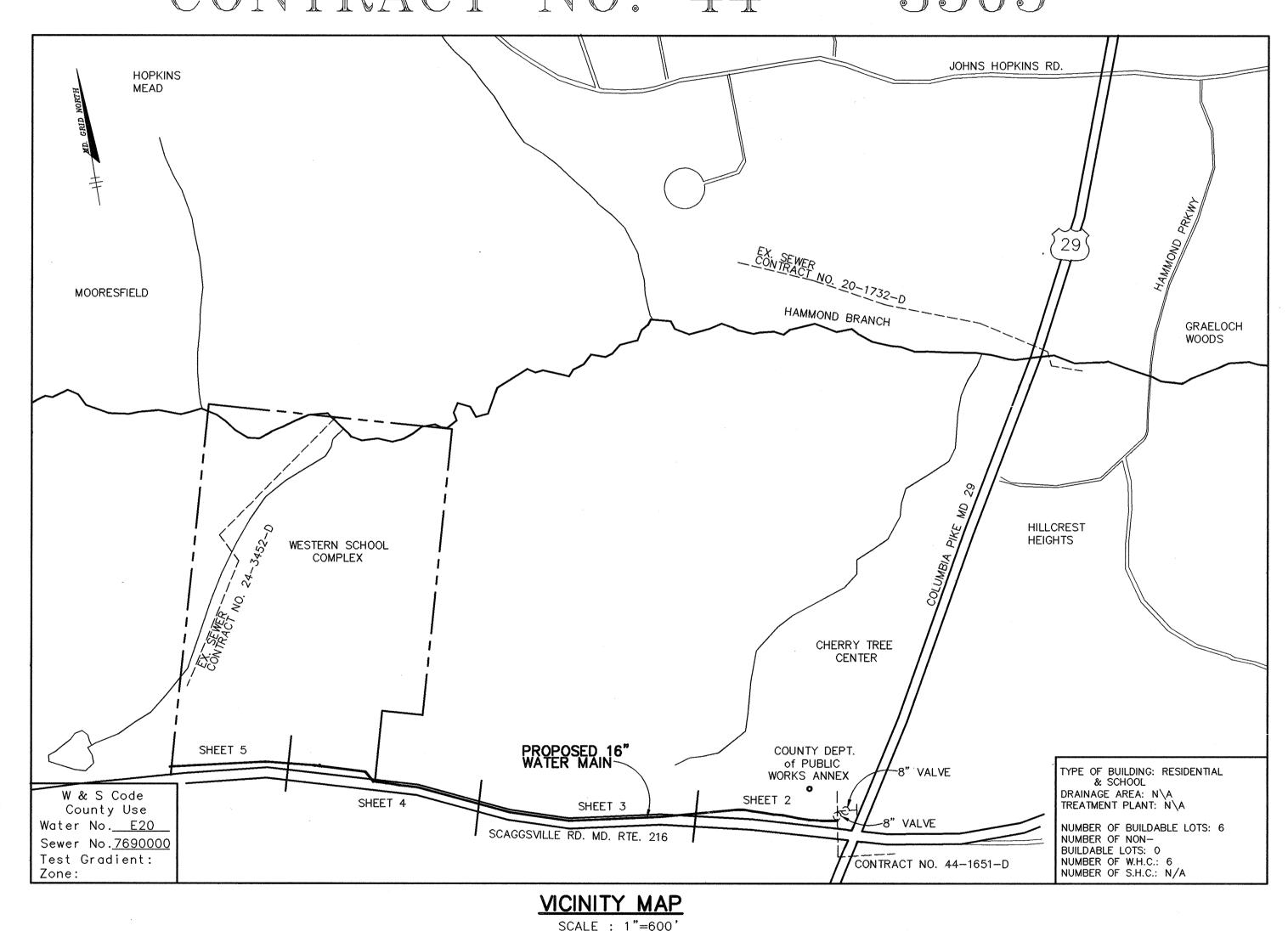
# WESTERN SCHOOL COMPLEX WATER MAIN EXTENSION

CAPITAL PROJECT NO. W-8213 HOWARD COUNTY, MARYLAND

# DEPARTMENT OF PUBLIC WORKS CONTRACT NO. 44 - 3505



### NAME OF UTILITY CONTRACTOR : W.F. WILSON & SONS

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on the drawings.

**LEGEND** 

EX. SEWER

\_\_\_\_\_ EX. CURB 

---- EX. STORM DRAIN

PROP. WATER PROP. SEWER

**QUANTITIES** 

QUANTITIES

5086 L.F.

140 L.F.

10 L.F.

126 L.F.

12

QUANTITIE

**ESTIMATED** 

5100 LF

170 LF

15 LF

155 LF

14

ITEMS

16" D.I.P., CL 52

6" D.I.P., CL 52

12" D.I.P., CL 52

3/4" W.H.C.

16" VALVE

12" VALVE

FIRE HYDRANTS

1 1/2" AIR RELEASE

1 1/2" DRAIN ASSEMBL

12"x12" TAPPING SLEEVE

& VALVE ASSEMBLY

VALVE & MANHOLE

CHECKBOX TEB. AS-BUILT DATE 10/9/97 SURVEY AND DRAFTING DIVISI

TAPPING SLEEVE U.S. PIPE

AS-BUILT

TYPE

D.1.P.

TYPE K COPPE

AWWA C-502

ARV MANHOLE

MANUFACTURER SUPPLIER

U.S. PIPE

U.S. PIPE

1.5. PIPE

ATLANTIC CON

Review for Howard Soil Conservation District and meets technical requirements.

ESOURCES CONSERVATION SERVICE This plan is approved for soil erosion and

sediment control by the Howard Soil Conservation District

#### 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 THIS 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"

8/30/96 BUREAU OF ENGINEERING DATE DEPARTMENT OF PUBLIC WORKS

#### ENGINEER'S CERTIFICATION

"I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICABLE AND WORKABLE PLAN BASED ON MY PERSONNEL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT"

RIEMER MUEGGE/GEORGE MILES BUHR A JOINT VENTURE 8818 CENTRE PARK DRIVE . COLUMBIA, MD. 21045

#### INDEX OF DRAWINGS

#### SHEET NO.

#### TITLE SHEET WATER MAIN PLAN & PROFILE STA 0+00 TO STA 12+28 WATER MAIN PLAN & PROFILE STA 12+28 TO STA 28+29 WATER MAIN PLAN & PROFILE STA 28+29 TO STA 42+91 WATER MAIN PLAN & PROFILE STA 42+91 TO STA 51+00 HYDRAULIC GRADIENT PROFILE & DETAILS

SEDIMENT & EROSION CONTROL NOTES & DETAILS

SHEET NO.

TRAFFIC CONTROL PLAN TRAFFIC CONTROL PLAN TRAFFIC CONTROL PLAN

#### 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 supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data.
- 5. Clear all utilities by a minimum of 12". 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.
- 7. 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 utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration
Baltimore Gas & Electric Co. Contractor Services
Baltimore Gas & Electric Co. Underground Damage Control

787-9068 1-800-257-7777 795-1390 Colonial Pipeline Co. Bureau of Utilities, Howard County Department of Public Works

- 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.
- 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.
- 11. 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
- 13. 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 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.
- 16. The Contractor shall not operate any water main valves on the existing water system.
- 17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- 18. Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- 19. The Fire hydrants shall be installed as per standard detail W.1.11.
- 20. For sprinkler system, all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter.
- The Contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five (5) 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(a) of the Howard County Code.
- Sediment control to be provided as shown on the drawings and on an as needed basis to be determined in the field by the Sediment Control Inspector.

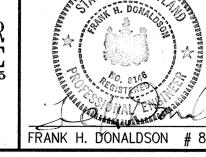
23. Contractor to provide traffic control during construction in accordance with the Manual On Traffic Control Devices (Latest Edition).

Contractor to protect the existing trees or shrubs and replace any damaged during construction.

(FROM DATA PROVIDED BY CONTRACTOR

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

RIEMER MUEGGE/GEORGE MILES BUHH 8818 Centre Park Drive • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282 96w910/sht 1



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TOTAL NO.	CHK:	G.C.L.	LEM	l	As built for addition of FH + WSIC for	
	DATE	0./00			Arbor Terrace Senior Housing	
# 8146	DATE:	8/96	BY	NO.	REVISION	DATE

TITLE SHEET

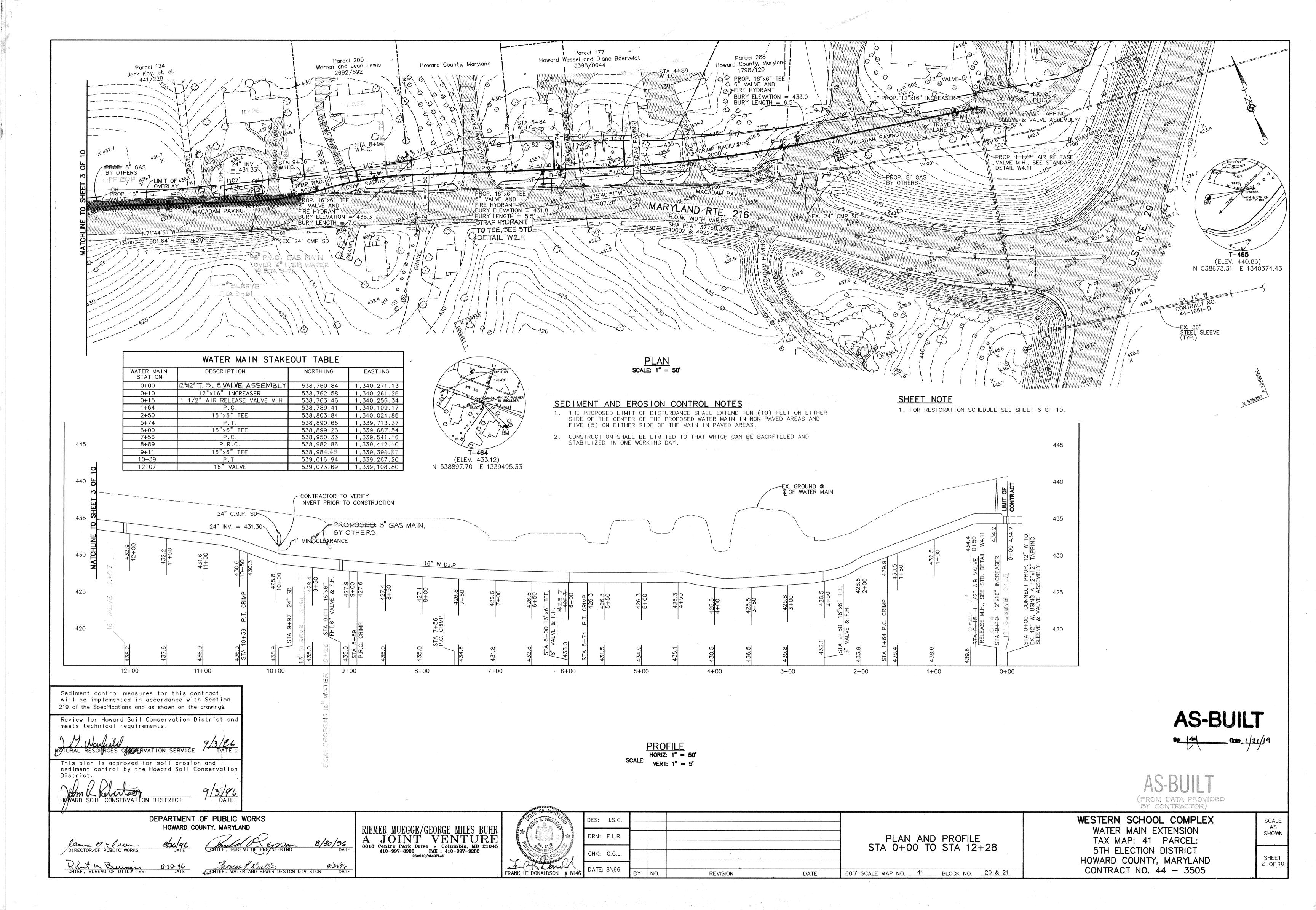
600' SCALE MAP NO. 41 BLOCK NO. 20 & 21

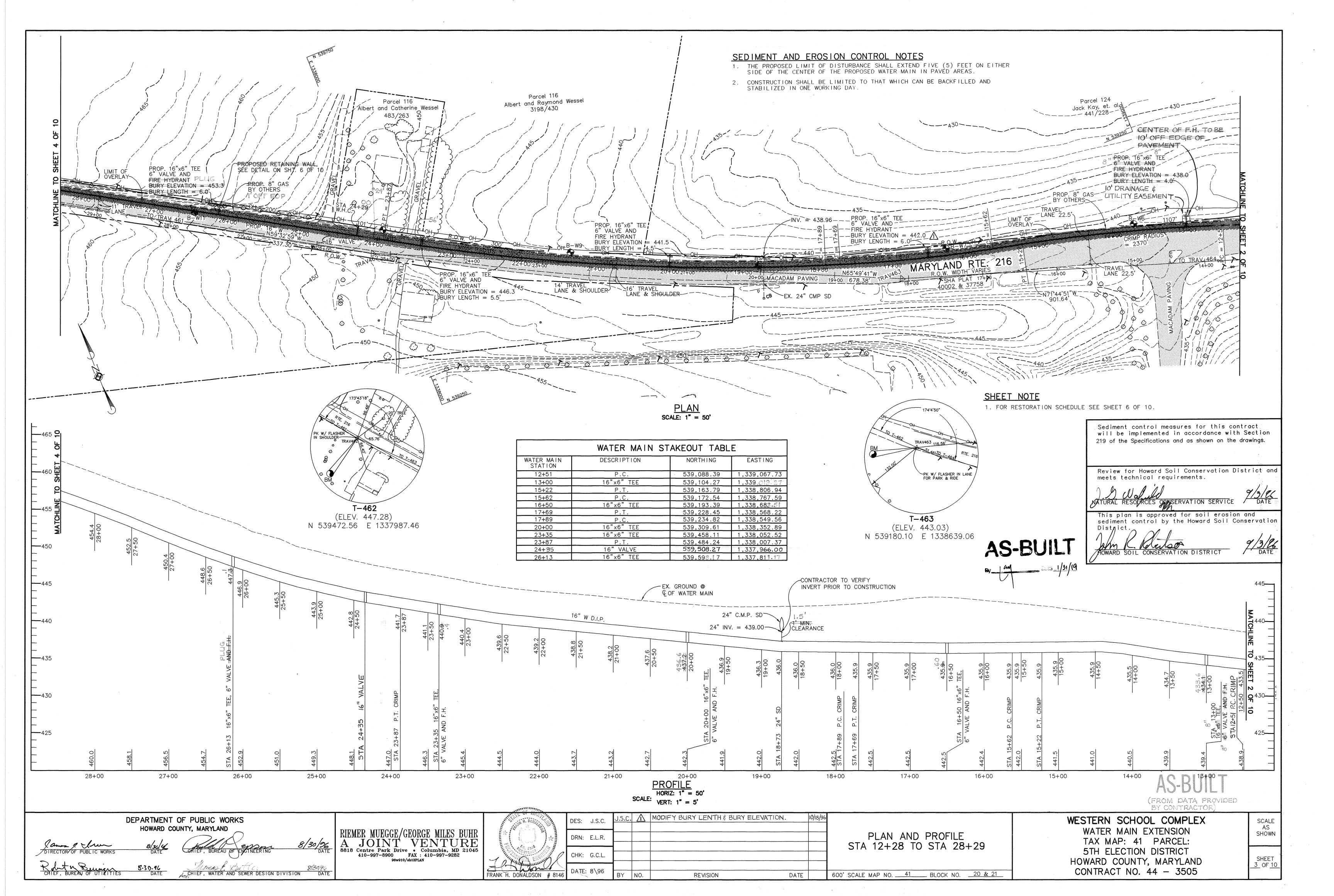
WESTERN SCHOOL COMPLEX WATER MAIN EXTENSION TAX MAP: 41 PARCEL: 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 44 - 3505

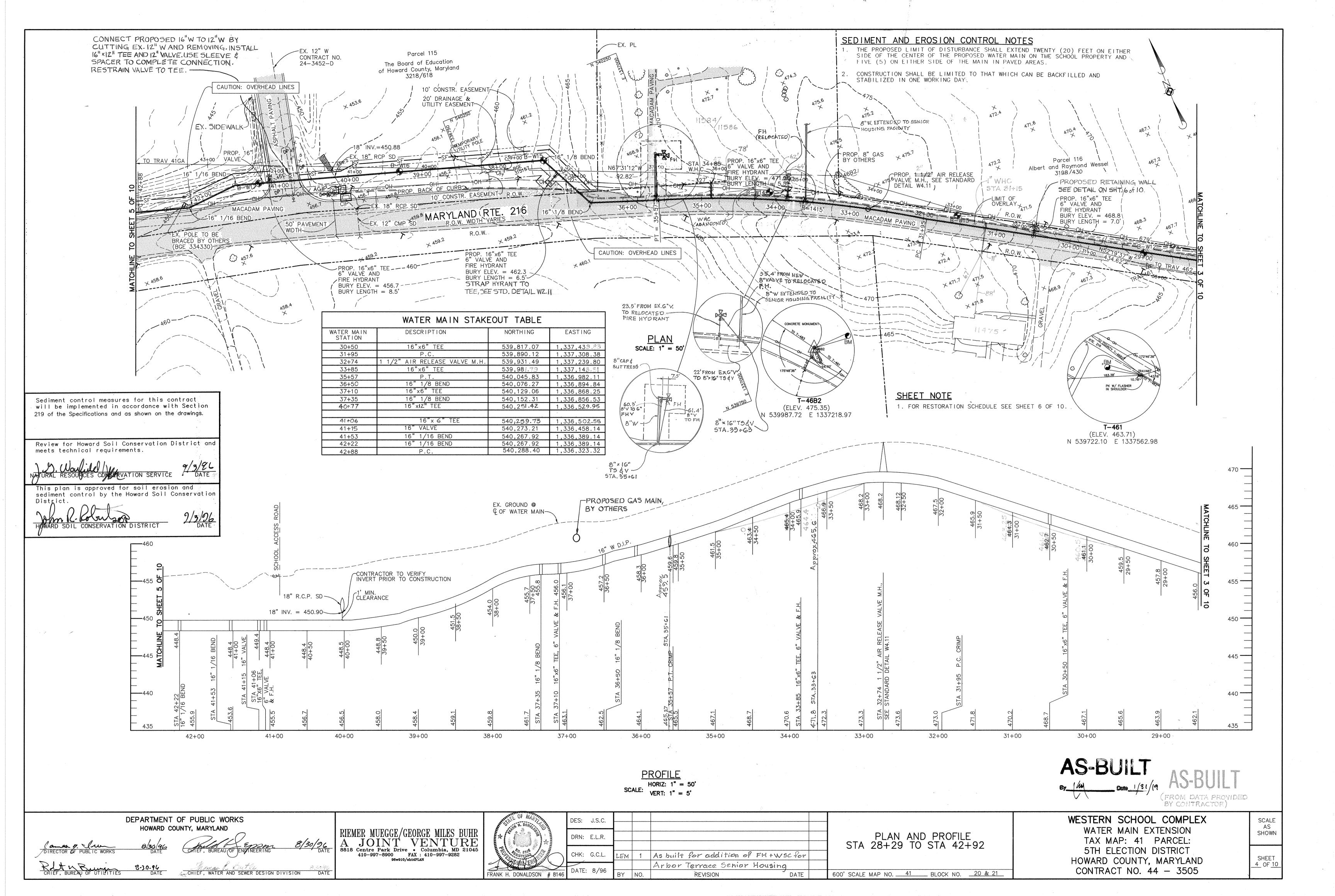
AS SHOWN SHEET

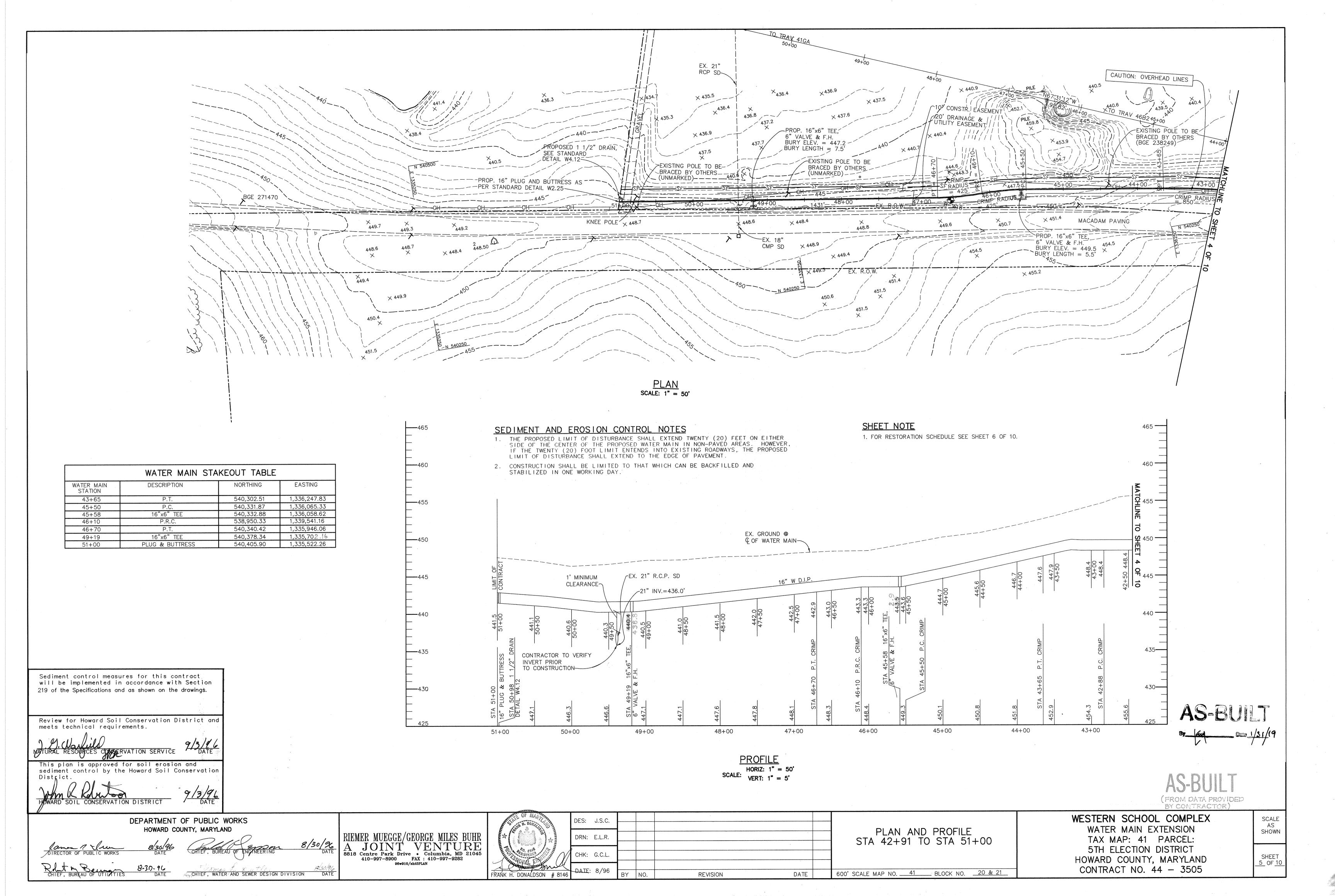
1 OF 10

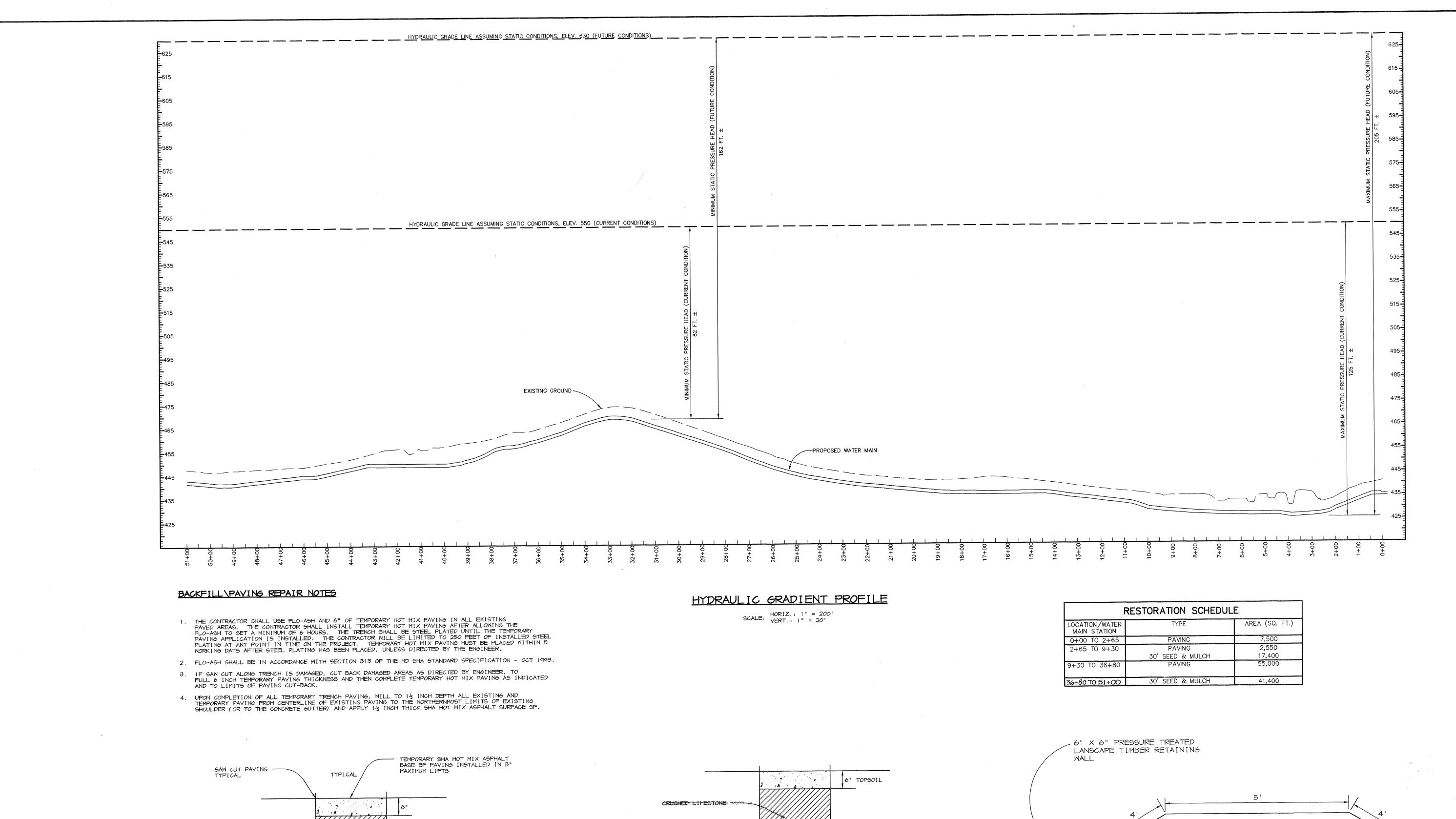
AS-BUILT 10/9/97

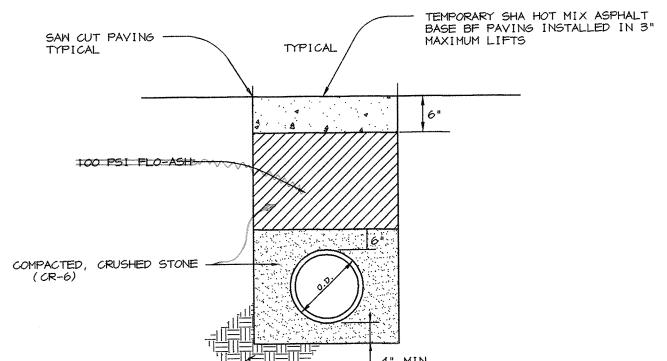




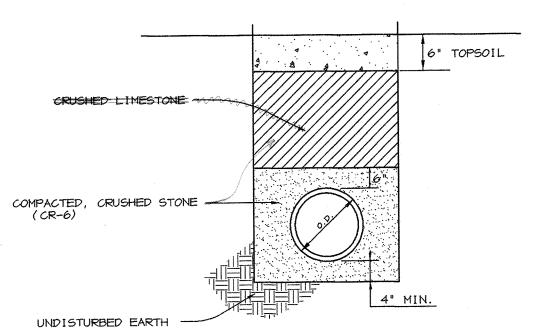








TRENCH BACKFILL & PAVING REPAIR DETAIL NOT TO SCALE



TRENCH BACKFILL DETAIL FOR OTHER THAN PAVED AREAS

6" X 6" PRESSURE TREATED LANSCAPE TIMBER RETAINING WALL		
4'	5'	4'
45°	-m	45°
PROPOSED FIRE HYDR NOTES:	PANT	
1. SIDE SLOPES AROUND WALL SHALL BE NO STEEPER THAN 3:1		
2. MAX HEIGHT OF RETAINING	Н	4

RETAINING WALL DETAIL

NOT TO SCALE

(FROM DATA PROVIDED BY CONTRACTOR)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, WATER AND SEWER DESIGN DIVISION

UNDISTURBED EARTH

8818 Centre Park Drive • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282 96w910/WTRPR0F2

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	DES:	J.S.C.			
	DRN:	E.L.R.			
		G.C.L.			
<u>/</u>		8/96	BY	NO.	REVISION

HYDRAULIC GRADIENT PROFILE AND DETAILS

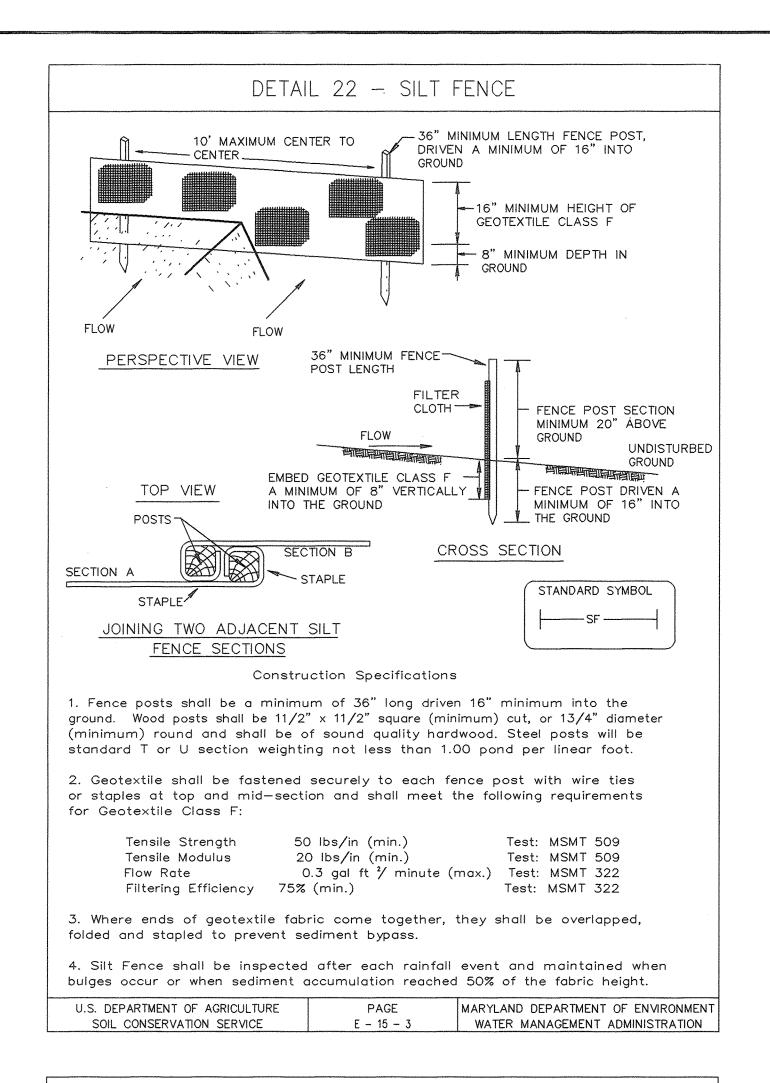
600' SCALE MAP NO. 41 BLOCK NO. 20 & 21

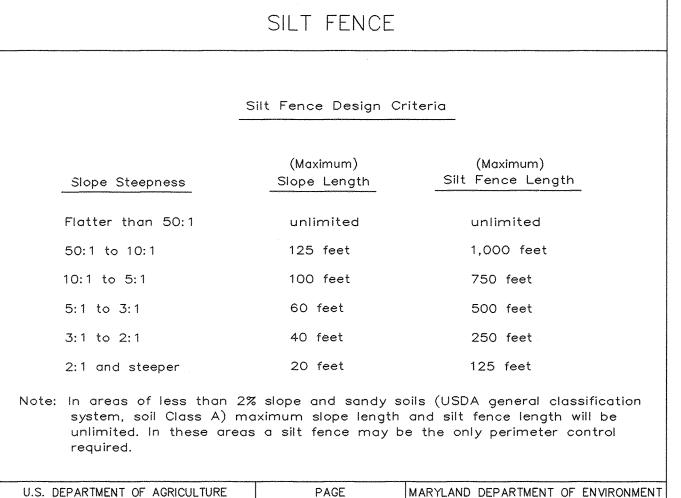
WALL, 3'

WESTERN SCHOOL COMPLEX WATER MAIN EXTENSION TAX MAP: 41 PARCEL: 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 44 - 3505

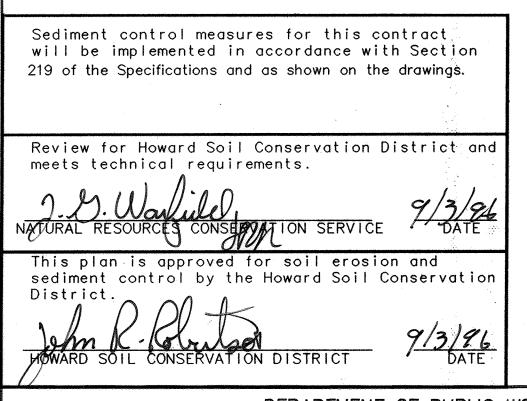
SCALE AS SHOWN

SHEET 6 OF 10

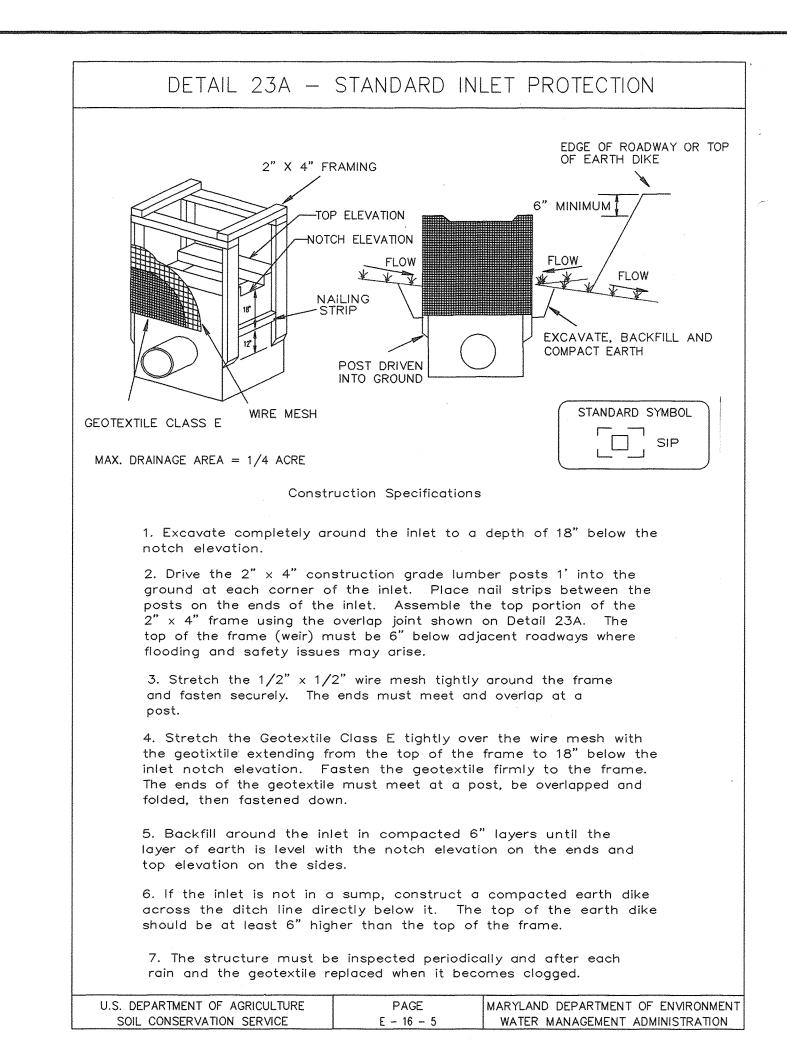


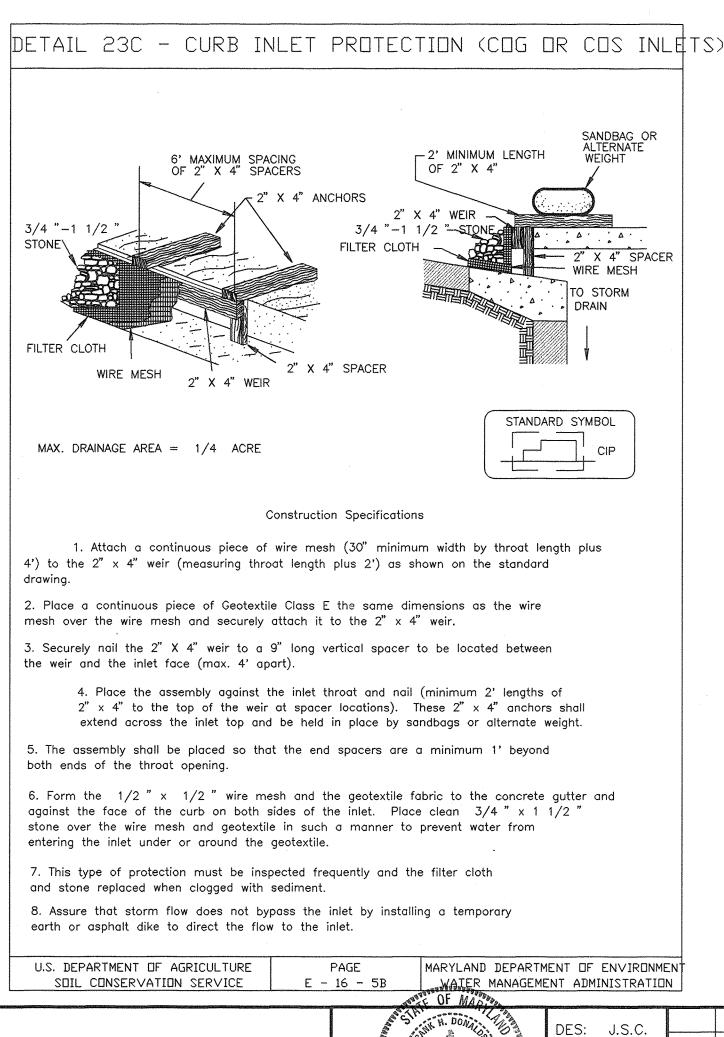


WATER MANAGEMENT ADMINISTRATION



SOIL CONSERVATION SERVICE





DETAIL 23B - AT GRADE INLET PROTECTION -3/4" - 11/2" STONE GEOTEXTILE CLASS E -PLAN/CUT AWAY VIEW -3/4" - 11/2" STONE ---INLET GRATE -GEOTEXTILE CLASS E -WIRE TIES 6" OVERLAP CROSS SECTION STANDARD SYMBOL MAX. DRAINAGE AREA = 1/4 ACRE AGIP Construction Specifications 1. Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place. 2. Place 3/4" to 11/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration. U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE E - 16 - 5A

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, if not previously

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 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.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 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. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1983 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. discing or other acceptable means before seeding, if not previously

<u>Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:</u>

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 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. per 1000 sq.ft.).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

<u>Seeding: For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.)</u> 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. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following

- 1) 2 tons per acre of well—anchored mulch straw and seed as soon as possible in the spring.

per 1000 sq.ft.) for anchoring.

3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 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. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal.

Maintenance: Inspect all seeded areas and make needed repairs.

#### SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERETO.
- 3. 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 AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. 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.

7. SITE ANALYSIS:

TOTAL AREA OF SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED

0.30 ACRES 0 ACRES 0.30 ACRES

- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10, SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION. 11. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY
- 13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., 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.
- 14. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SEQUENCE OF CONSTRUCTION

1. OBTAIN A GRADING PERMIT AND ALL OTHER NECESSARY PERMITS.

TOPSOIL SPECIFICATION

REVISION

TOPSOIL SHALL BE IN ACCORDANCE WITH HOWARD

COUNTY STANDARD SPECIFICATION SECTION 703.

2. ADVISE SEDIMENT AND EROSION CONTROL INSPECTOR 48 HOURS IN ADVANCE OF COMMENCING WORK. (1 DAY)

INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS DIRECTED BY HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR, AND AS SHOWN ON DRAWINGS.

(2 DAY) 4. INSTALL NEW WATERMAIN. (30 DAYS) 5. STABILIZE DISTURBED AREA AS INDICATED ON THE DRAWING. (4 DAYS)

REMOVE SEDIMENT AND EROSION CONTROL DEVICES WITH PERMISSION OF INSPECTOR AND STABILIZE BALANCE OF AREA. (1 DAY)

NOTE: CONSTRUCTION SHALL BE LIMITED THAT WHICH CAN BE BACKFILLED AND STABILIZED IN ONE WORKING DAY.

(FROM DATA PROVIDED BY CONTRACTOR

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

8818 Centre Park Drive • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282 96w910/SEDEROCO



DRN: E.L.R. CHK: G.C.L.

DATE: 8\96

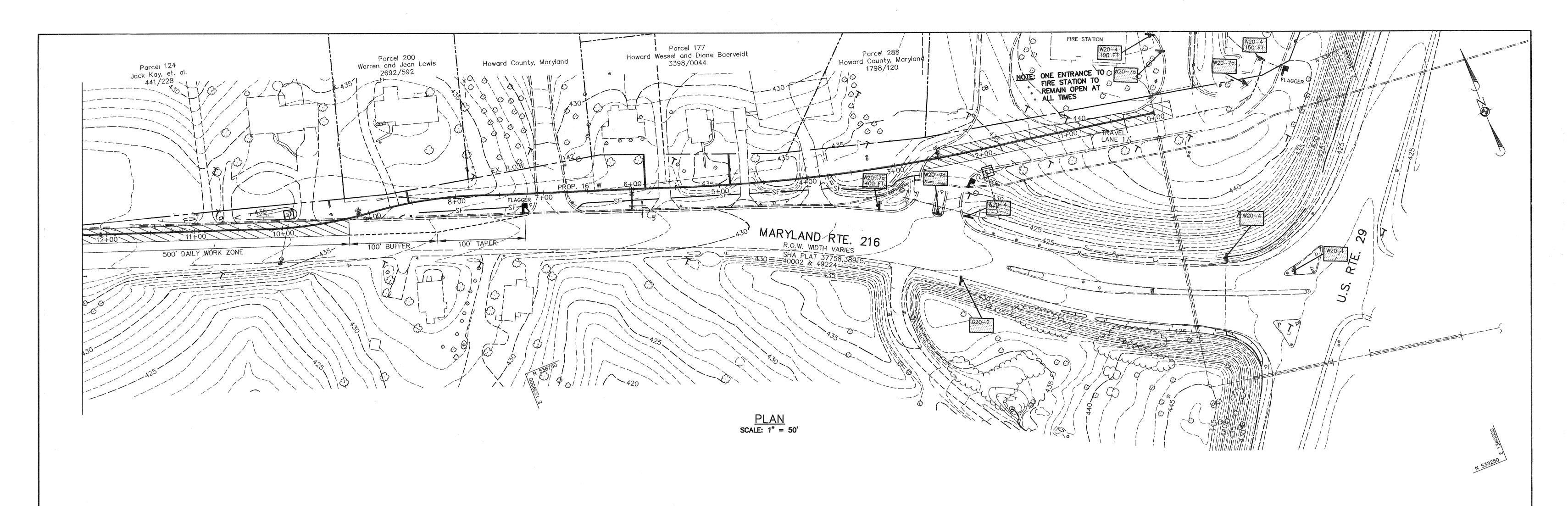
SEDIMENT EROSION CONTROL

600' SCALE MAP NO. 41 BLOCK NO. 20 & 21

WESTERN SCHOOL COMPLEX WATER MAIN EXTENSION TAX MAP: 41 PARCEL: 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 44 - 3505

AS SHOWN

SHEET 7 OF 1



#### GENERAL TRAFFIC CONTROL NOTES

An arrow panel in the flashing arrow mode shall be used anytime there is a lane closure on a multi-lane highway. Arrow panels shall not be used along two lane two-way roadways unless they display HdSHA's "four corner" lamp array.

Vehicles should not occupy or be stopped in a lane beyond a horizontal curve or a vertical curve (hill). Instead vehicles stopping are to be pulled as far off the road as possible or be otherwise parked in a manner as to inhibit the movement of traffic as little as possible. If stopping is necessary and no backup vehicle is available place channelizing devices in accordance with general note #3 along with the appropriate

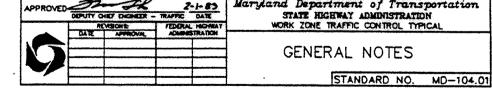
Warning signs mounted on wood post(s) for the over 24 hour operations shall be installed as shown in Figure 6-1, Part VI of the MUTCD. The bottom of the signs mounted on portable supports shall be not less than one foot above the pavement elevation. All signs shall be installed in such a manner as to provide adequate visibility of these signs and all other existing signs on the highway to the driver.

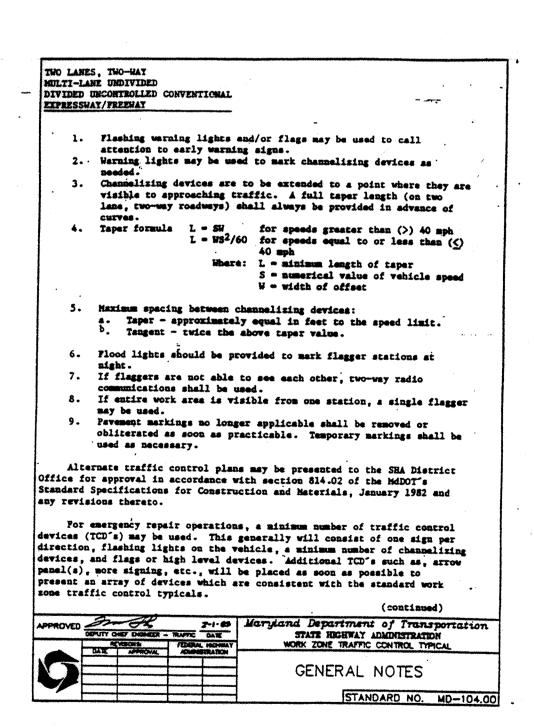
In urban areas along streets where the prevailing speed is 35 MPH or less, and along secondary roads where the Average Daily Traffic (ADT) is less than 1000 vehicles, the minimum size of 36" x 36" may be used.

For utility operations, advance warning signs may utilize the word "AHEAD" in lieu of distances up to and including 1500 feet. At greater distances, such as 1/2 mile or 1 mile; however, the correct distance value is to be used on such warning signs. Also the UTILITY WORK AHEAD sign may be used in lieu of ROAD CONSTRUCTION\_\_\_\_\_, ROAD WORK\_\_\_\_\_, or SHOULDER WORK signs only.

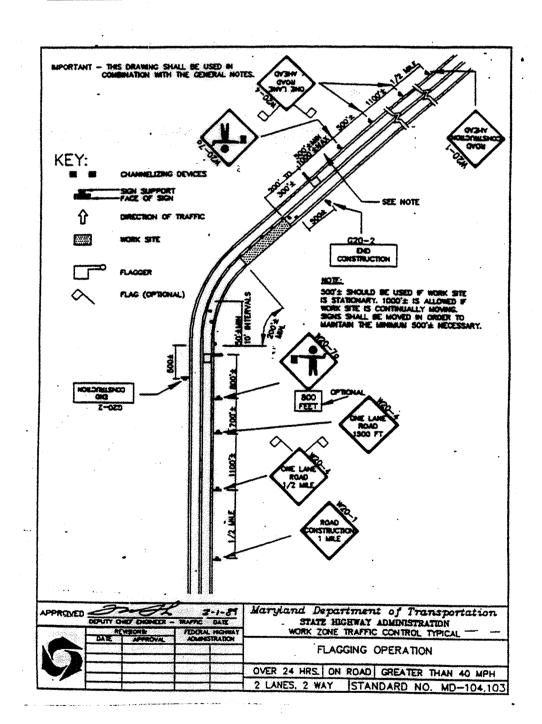
No work operations which interferes with the flow of traffic may take place during the peak hours 6 A.M. - 9 A.M. and 3 P.M. - 7 P.M. Honday - Friday unless written approval is received from the SHA District

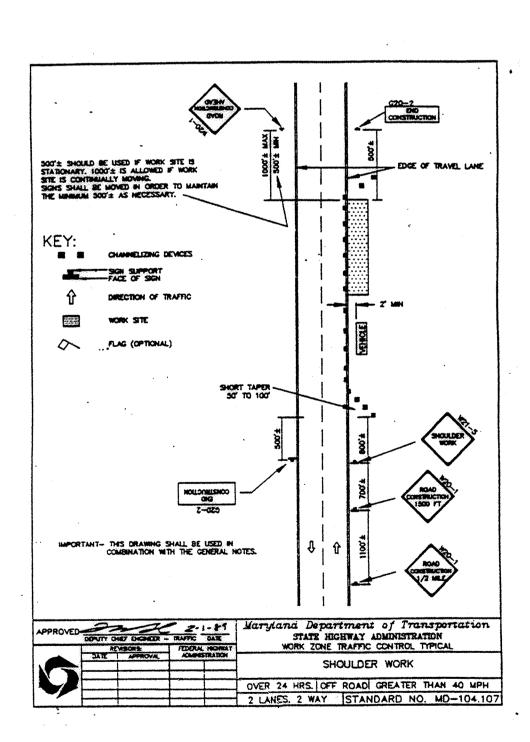
All signs, channelizing devices, etc. shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).





#### **DETAILS**





#### <u>LEGEND</u>

DAILY WORK ZONE

LIMITS OF LANE CLOSURE

WF-XXXX
SIGN DESIGNATION

SIGN DESIGNATION

CONSTRUCTION SIGN

---- CHANNELIZING DEVICES

FLAGGER

AS-BUILT

a jaid Date 1/31/19

AS-BUILDED

(FROM PATA PROVIDED

BY CONTRACTOR

#### SHEET NOTES

- 1. A 500 FOOT WORK ZONE SHALL BE FLAGGED OFF EACH DAY FOR CONSTRUCTION OPERATIONS. THE SIGNAGE INDICATED ON PLAN SHEETS 8 THRU 10 IS THAT REQUIRED FOR THE FIRST 500 FEET OF CONSTRUCTION ASSUMING CONSTRUCTION OPERATIONS COMMENCE AT STATION 0+00. THE 500 FOOT WORK ZONE SHALL MOVE ALONG MD ROUTE 216 AS WORK PROGRESSES. THIS PROCESS WILL MINIMIZE THE STRETCH OF LANE SHUTDOWN REQUIRED DURING CONSTRUCTION. ALL SIGNS SHALL ADHERE TO MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD DETAIL MD-104.103. AS CONSTRUCTION PROCEDES WESTWARD ADDITIONAL SIGNAGE SHALL BE ADDED AS PER M.S.H.A. STANDARD DETAIL NUMBER MD-104.103. ALL CONSTRUCTION SIGNS SHALL BE MOUNTED ON 105 WINDSTANDS.
- 1. PLACE ONE W20-4 SIGN AND ONE W20-1 SIGN AT THE OUTLET OF LIME KILN ROAD ON TO MD ROUTE 216.

## DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS

DATE

CHIEF, BUREAU OF ENGINEERING

B/30/2

CHIEF, BUREAU OF UTILITIES

DATE

CHIEF, WATER AND SEWER DESIGN DIVISION

D

RIEMER MUEGGE/GEORGE MILES BUHR A JOINT VENTURE 8818 Centre Park Drive • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282



3146	DATE:	BY	NO.	REVISION	DATE	600' SCALE MAP NO. 41 BLOCK NO. 20 & 21
Andrew .						
2	CHK: G.C.L.					
	DRN: S.A.J.					TRAFFIC CONTROL PLAN
	DES: J.S.C.					

WESTERN SCHOOL COMPLEX
WATER MAIN EXTENSION
TAX MAP: 41 PARCEL:
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.

SCALE
AS
SHOWN
SHEET
8 OF 10

