

# OLD FREDERICK ROAD SEWER EXTENSION

## GENERAL NOTES:

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAINS UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON 06/08/2020 BY PRECISION MEASUREMENTS, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
 

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD 83 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATION NO. 17FA N 594,948.393 E 1,364,626.834 ELEV. 476.712  
 ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HOWARD COUNTY CONTROL MONUMENT 17FA N 594,948.393 E 1,364,626.834 ELEV. 476.712.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. 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 DRAWING, 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	800-252-1133
BGE (CONTRACTOR SERVICES)	410-637-0713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MISS UTILITY	800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	800-743-0033
- 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.
- THE 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.

## GENERAL 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 THAT THE CELLAR CANNOT BE SERVED

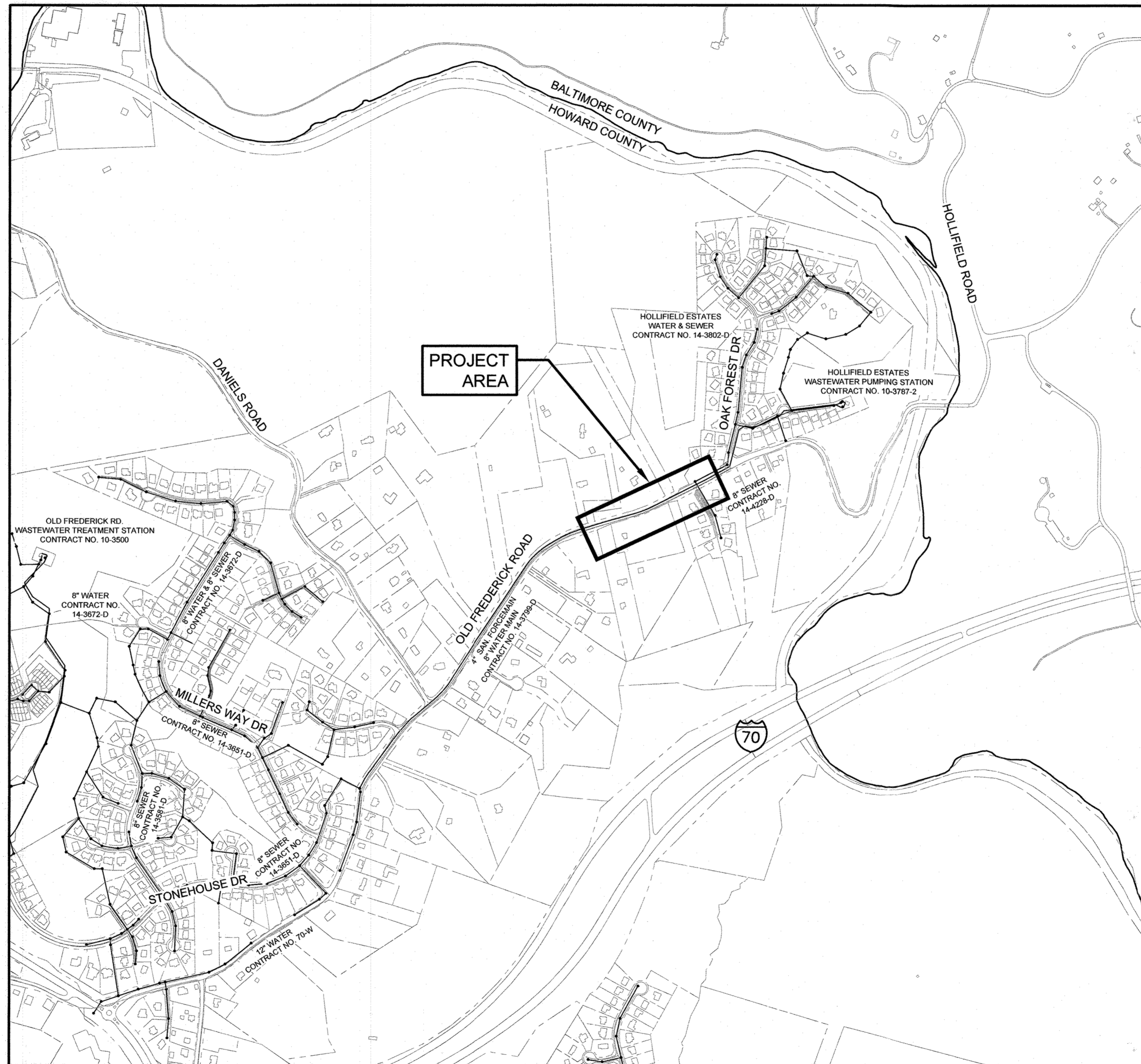
## QUANTITIES

ITEM	BID AMOUNT	UNIT	AS-BUILT AMOUNT	MATERIAL	SUPPLIER
8" DR-25 C900 PVC GRAVITY SEWER	562	LF	564	PVC	JM MANUFACTURING
4" STANDARD PRECAST CONCRETE MANHOLE (UP TO 6 VF DEEP)	5	EA	5	PRECAST CONCRETE	CONTRACTORS PRECAST
4" STANDARD PRECAST CONCRETE MANHOLE (ADDITIONAL VF)	25	VF	25	PRECAST CONCRETE	CONTRACTORS PRECAST
4" SDR 35 PVC SHC	60	LF	61	PVC	NATIONAL PIPE
CLEANOUT ASSEMBLY	3	EA	3	PVC	HOME CONCRETE
PAVEMENT RESTORATION	560	SQ. YD.	233.24	ASPHALT	-
TYPE "B" EXTERNAL DROP CONNECTION	5	VF	5	-	-
24" x 24" CONCRETE INLET	-	EA	1	PRECAST CONCRETE	-
16" RCP STORM DRAIN	-	LF	31	RCP	-

FOR COUNTY USE ONLY:  
 WATER AND SEWER CODE NO. OF SEWER CONNECTIONS: 3  
 NO. OF LOTS SERVICED: 3  
 USE OF BUILDINGS/STRUCTURES: N/A  
 DRAINAGE AREA: PATAPSCO

## VICINITY MAP

SCALE: 1" = 600'



## CAPITAL PROJECT: S6699 CONTRACT NO.: 10-5150 HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

## INDEX OF DRAWINGS

DRAWING NO.	TITLE
1	COVER
2	LEGEND, ABBREVIATIONS, GENERAL NOTES
3	OLD FREDERICK ROAD PROPOSED SEWER PLAN AND PROFILE
4	EROSION & SEDIMENT CONTROL PLAN
5	EROSION & SEDIMENT CONTROL NOTES AND DETAILS
6	MAINTENANCE OF TRAFFIC PLAN

## PURPOSE STATEMENT

THIS PROJECT IS BEING PERFORMED TO EXTEND THE LIMITS OF THE EXISTING GRAVITY SANITARY SEWER SYSTEM TO PROVIDE FUTURE PUBLIC SEWER SERVICE TO #8369 AND #8379 OLD FREDERICK ROAD. THIS PROJECT IS IN RESPONSE TO REQUESTS RECEIVED BY THE COUNTY, FROM THE HOMEOWNERS OF THE AFOREMENTIONED PROPERTIES. INCLUDED WITH THIS PROJECT IS THE INSTALLATION OF NEW GRAVITY SEWER PIPING, MANHOLES, AND SEWER HOUSE CONNECTION STUBS TO FACILITATE FUTURE CONNECTION TO THE SYSTEM.

## OWNERS / DEVELOPER CERTIFICATION:

I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

OWNER'S / DEVELOPER'S SIGNATURE: *[Signature]* DATE: 11/13/2020

PRINTED NAME & TITLE: SANJAY KULKARNI, P.E.

## DESIGN CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DESIGNER'S SIGNATURE: *[Signature]* DATE: 11/12/2020

PRINTED NAME: JOSEPH P. CONTI  
 MD REGISTRATION NO. 55452  
 (P.E.) R.L.S., OR R.L.A. (CIRCLE ONE)

RECORD DRAWINGS TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, BASED ON INFORMATION PROVIDED BY OTHERS. THESE RECORD DRAWINGS SUBSTANTIALLY REPRESENT THE PROJECT AS CONSTRUCTED.

OBRIEN & GERE ENGINEERS, INC.  
 BY: *[Signature]* 4-19-21

AS-BUILT  
 4-19-21

## DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS: *[Signature]* DATE: 11/17/2020  
 CHIEF, BUREAU OF UTILITIES: *[Signature]* DATE: 11/13/2020

CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 11/13/2020  
 CHIEF, UTILITY DESIGN DIVISION: *[Signature]* DATE: 11/13/2020

OBRIEN & GERE  
 4201 MITCHELLVILLE ROAD  
 SUITE 500  
 BOWIE, MD 20716  
 PHONE: 301-731-5622

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 55452, EXPIRATION DATE 12/23/21.

STATE OF MARYLAND  
 JOSEPH P. CONTI  
 PROFESSIONAL ENGINEER

DSN. BY:	JPC				
DRN. BY:	BNL				
CHK. BY:	HAM				
DATE:	10/2020	JPC	Δ	AS-BUILT	4/21
BY:	NO.			REVISION	DATE

## COVER

600' SCALE MAP NO. 18 BLOCK NO. 2

## OLD FREDERICK ROAD SEWER EXTENSION

CAPITAL PROJECT: S6699  
 CONTRACT NO.: 10-5150  
 ELECTION DISTRICT: 2  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 6  
 FILE NO. 51204-

### LEGEND

(PLAN AND PROFILE SHEETS)

	SIDEWALK		MAIL BOX
	PAVEMENT (EDGE)		VENT
	GRAVEL (EDGE)		STORM DRAIN MH
	CONCRETE (EDGE)		HEADWALL/ENDWALL
	BUILDING		DROP INLET GRATE
	CENTERLINE		DROP INLET ROAD
	SHA THRU HIGHWAY RIGHT-OF-WAY		SIGN
	PROPERTY LINE/RIGHT-OF-WAY		TELE. JUNC. BOX
	EASEMENT		UTILITY POLE
	MAJOR CONTOURS		LIGHT POLE
	MINOR CONTOURS		LAMP POST
	GUARDRAIL		GUY WIRE
	FENCE (WOOD)		GROUND LIGHT
	FENCE IRON, RAIL		ELECTRICAL TRANSFORMER
	FENCE (CHAINLINK)		ELECTRICAL MANHOLE
	UNDERGROUND ELECTRIC LINE		ELECTRICAL JUNCTION BOX
	OVERHEAD ELECTRIC LINE		SPOT ELEVATION
	UNDERGROUND TELEPHONE LINE		CABLE BOX
	UNDERGROUND CABLE LINE		EXISTING SANITARY SEWER MANHOLE
	UNDERGROUND FIBER OPTIC LINE		PROPOSED SANITARY SEWER MANHOLE
	OVERHEAD UTILITIES		CLEAN OUT
	EXISTING SANITARY FORCEMAIN		WATER VALVE
	EXISTING SANITARY SEWER		WATER METER
	PROPOSED SANITARY SEWER		WATER MAIN VALVE VAULT
	STORM DRAIN		IRRIGATION VALVE
	WATER MAIN		EXISTING FIRE HYDRANT
	GAS		GAS VENT PIPE
	LIMITS OF DISTURBANCE		GAS VALVE
	SILT FENCE		GAS PUMP
	WETLANDS BOUNDARY		GAS LINE MARKER
	WETLANDS BUFFER BOUNDARY		IRON PIPE FOUND
	DITCH		REBAR AND CAP
	STREAM		TRAVERSE STATION
	WOODLINE		POINT OF CONNECTION
	BUSH		AGIP
	RIP-RAP DITCH		AT GRADE INLET PROTECTION
	MILL AND OVERLAY		
	BORING LOCATION		DETAIL OR SECTION IDENTIFICATION
	TEST PIT LOCATION		SHEET NO.
	BM #		DETAIL IDENTIFICATION
	REBAR		SHEET THAT DETAIL IS TAKEN FROM
	FLY STATION		
	ASPHALT PAVEMENT		

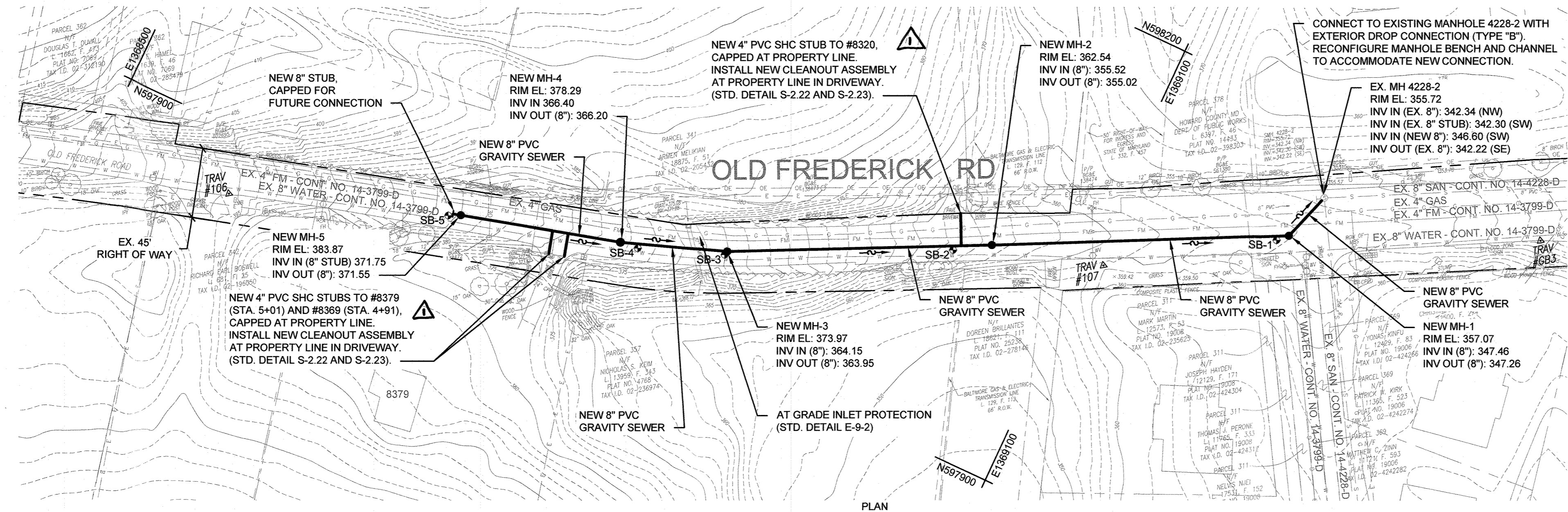
### ABBREVIATIONS

APPROX.	APPROXIMATE
ARV MH	AIR RELEASE MANHOLE
BE	BURY ELEVATION
BFV	BUTTERFLY VALVE
BGE	BALTIMORE GAS & ELECTRIC
BL	BURY LENGTH
BLDG.	BUILDING
BOT	BOTTOM
C&G	CURB AND GUTTER
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONTR.	CONTRACT
CPLS.	COUPLING
DEG	DEGREE
DET OR DTL.	DETAIL
DIP	DUCTILE IRON PIPE
DR	DRIVE
E OR ELEC	ELECTRIC
EA	EACH
ELEV	ELEVATION
ESMT	EASEMENT
EX	EXISTING
FH	FIRE HYDRANT
FLG	FLANGE
FMV	FLOW METER VAULT
G	GAS
GCS	GEODETIC CONTROL SYSTEM
GV	GATE VALVE
HB	HORIZONTAL BEND
HD	HIGH DEFLECTION
HC	HOWARD COUNTY
HCR	HORIZONTAL CURVE RADIUS
HDP	HORIZONTAL DEFLECTION POINT
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
INV	INVERT
JT	JOINT
LF	LINEAR FOOT
LOD	LIMIT OF DISTURBANCE
MAC	MACADAM
MBR	MINIMUM BENDING RADIUS
MD	MARYLAND
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
NIC	NOT IN CONTRACT
NO	NUMBER
PC	POINT OF CURVE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLANE END
PEDEST	PEDESTAL
PO	POST OFFICE OR PUSH ON
PROPOSED	PROPOSED
PT	POINT OR POINT OF TANGENCY
PVC	PVC PIPE OR POINT OF VERTICAL CURVATURE
PVD	POINT OF VERTICAL DEFLECTION
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
R/W	RIGHT OF WAY
RAD OR R	RADIUS
RCP	REINF. CONC. PIPE
RD	ROAD
REQD	REQUIRED
RJ	RESTRAINED JOINT
ROW	RIGHT-OF-WAY
RSGV	RESILIENT SEAT GATE VALVE
RSWV	RESILIENT WEDGE GATE VALVE
S	SEWER
SAN	SANITARY
SB	SOIL BORING
SD	STORM DRAIN
SHA	STATE HIGHWAY ADMINISTRATION
SHC	SEWER HOUSE CONNECTION
SHT	SHEET
S.S.	STAINLESS STEEL
STA	STATION
STD	STANDARD
TB RENO	TO BE RENOVATED (FUTURE)
TBR	TO BE REMOVED (FUTURE)
TELE	TELEPHONE
TEMP	TEMPORARY
TP	TEST PIT
TRANS	TRANSFORMER
UNF	UTILITY NOT FOUND
VB	VERTICAL BEND
VCR	VERTICAL CURVE RADIUS
VERT	VERTICAL
W	WATER
W/	WITH
WHC	WATER HOUSE CONNECTION
WM	WATER MAIN
WW	WATER VALVE

**AS-BUILT**  
4-19-21

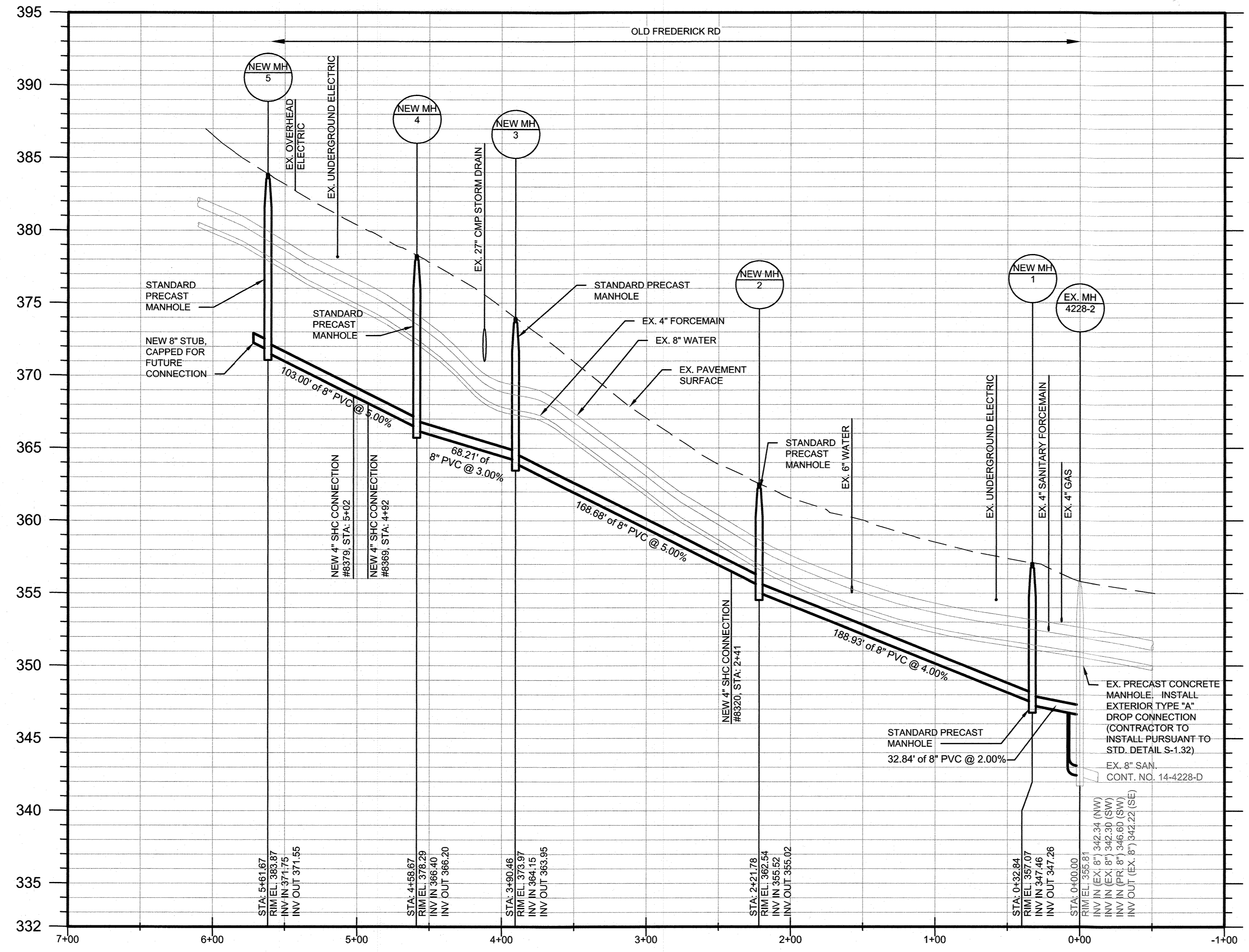
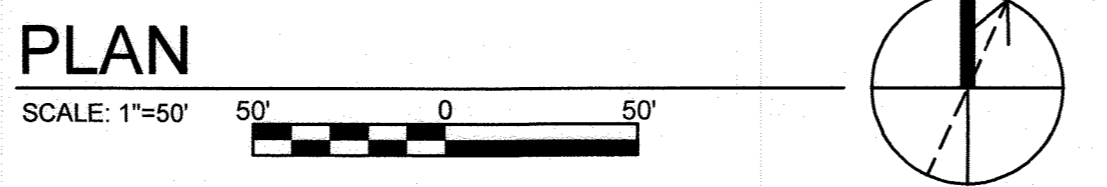
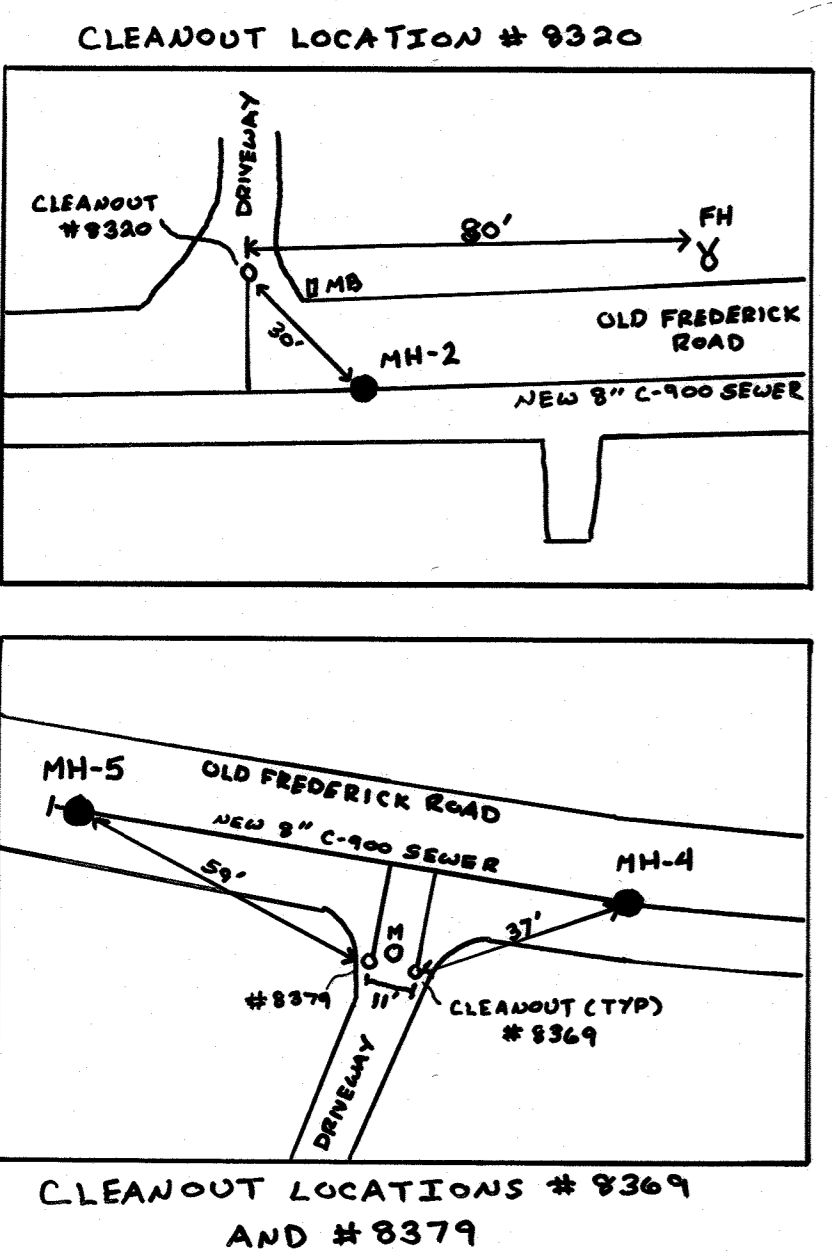
<p><b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 11/17/2020 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>[Signature]</i> 11/13/2020 CHIEF, BUREAU OF UTILITIES DATE</p>	<p><b>O BRIEN &amp; GERE</b> 4201 MITCHELLVILLE ROAD SUITE 500 BOWIE, MD 20716 PHONE: 301-731-5622</p>	<p>PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 55452, EXPIRATION DATE 12/23/21.</p> <p><i>[Signature]</i> 11/13/2020 CHIEF, UTILITY DESIGN DIVISION DATE</p>	<p>DSN. BY: JPC</p> <p>DRN. BY: BNL</p> <p>CHK. BY: HAM</p> <p>DATE: 10/2020</p>	<p>JPC  AS-BUILT</p> <p>BY NO. REVISION DATE</p>	<p><b>LEGEND, ABBREVIATIONS, AND GENERAL NOTES</b></p> <p>600' SCALE MAP NO. 18 BLOCK NO. 2</p>	<p><b>OLD FREDERICK ROAD SEWER EXTENSION</b></p> <p>CAPITAL PROJECT: S6699 CONTRACT NO.: 10-5150 ELECTION DISTRICT: 2 HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 2 OF 6</p>
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**PLAN NOTES:**

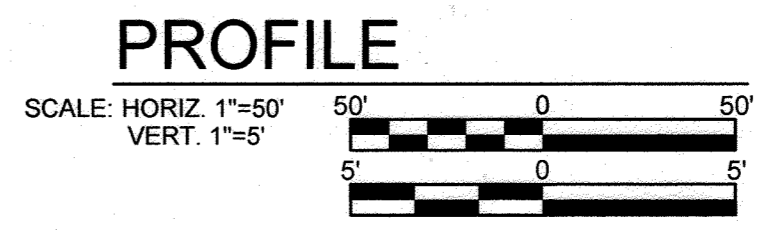
- UNLESS OTHERWISE NOTED ON THESE PLANS, HORIZONTAL AND VERTICAL SEPARATIONS BETWEEN THE NEW GRAVITY SEWER AND THE EXISTING WATER MAIN SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL S-3.13. CROSSING OF EXISTING WATER MAINS SHALL HAVE A MINIMUM SEPARATION OF EIGHTEEN (18) INCHES. CROSSING OF ALL OTHER UTILITIES (I.E. STORM, GAS, FORCE MAINS) SHALL BE TWELVE (12) INCHES MINIMUM.
- PIPE TRENCHING AND PAVEMENT REPLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, INCLUDING STANDARD DETAIL G-2.12, "PIPE TRENCH PLASTIC AND COPPER" AND STANDARD DETAIL G-4.01, "UTILITY TRENCH ROADWAY REPAVING", RESPECTIVELY.
- DUE TO THE PROXIMITY OF THE EXISTING WATER MAIN TO THE NEW GRAVITY SEWER, ALL NEW GRAVITY SEWERS SHALL BE 8-INCH, DR-25 C-900 PVC PRESSURE PIPE.
- ALL NEW MANHOLES SHALL BE FOUR (4) FOOT DIAMETER PRECAST CONCRETE MANHOLES.
- NEW SEWER HOUSE CONNECTIONS (SHCS) SHALL BE INSTALLED FROM THE MAINLINE GRAVITY SEWER TO THE PROPERTY LINE WITH CLEANOUTS PLACED AT THE PROPERTY LINE ON THE HOMEOWNER'S SIDE OF THE LINE. NEW SHCS SHALL BE SDR 35 PVC PIPE.
- INSTALLATION OF THE NEW SEWER MAIN, MANHOLES, AND SHCS SHALL CONFORM TO SECTIONS "1009 SANITARY SEWER MAINS AND SEWER HOUSE CONNECTIONS" AND "1010 - SANITARY SEWER MANHOLES." TESTING OF THE NEW SEWER MAIN (C900 PVC PRESSURE PIPE) SHALL CONFORM TO COUNTY STANDARDS FOR PRESSURE PIPE TESTING.
- UNLESS OTHERWISE SPECIFIED OR DETAILED IN THE CONTRACT DOCUMENTS, THE "HOWARD COUNTY DESIGN MANUAL, VOLUME IV," STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION) SHALL GOVERN FOR ALL CONSTRUCTION DETAILS, MATERIALS, AND CONSTRUCTION METHODOLOGIES FOR THIS PROJECT. THE CONTRACTOR IS ALSO REQUIRED TO MAINTAIN A COPY OF VOLUME IV ON THE JOB SITE.
- DUE TO THE NATURE OF THE PROJECT LOCATION AND TOPOGRAPHY, THE POTENTIAL FOR SUBSURFACE ROCK EXISTS. BORINGS WERE DRILLED ALONG THE ALIGNMENT AT LOCATIONS IN CLOSE PROXIMITY TO THE PROPOSED MANHOLES. THE CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT PROVIDED AS PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE COUNTY IMMEDIATELY SHOULD BURIED ROCK BE ENCOUNTERED WITH EXCAVATION ACTIVITIES ASSOCIATED WITH THE PROJECT. ROCK REMOVAL IS NOT INCLUDED AS PART OF THIS CONTRACT AND THE CONTRACTOR WILL NOT BE REIMBURSED FOR ANY ROCK REMOVAL ASSOCIATED WITH EXCAVATION AND SEWER INSTALLATION ACTIVITIES PERFORMED IN ADVANCE OF NOTIFYING THE COUNTY TO NEGOTIATE A PRICE FOR ADDRESSING ROCK REMOVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROTECT EXISTING UTILITIES AND SERVICES (BURIED AND ABOVE-GROUND) AND MAINTAIN UNINTERRUPTED SERVICE THROUGHOUT PROJECT CONSTRUCTION. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE COUNTY AT THE CONTRACTOR'S EXPENSE.
- EXISTING STORM DRAINS/CULVERTS DISTURBED BY THE CONSTRUCTION SHALL BE REPLACED IN KIND AT THE SAME LINE AND GRADE AS THE EXISTING STORM DRAINS.
- AS REQUIRED BY THE MARYLAND HIGH VOLTAGE LINE ACT, ANY CONSTRUCTION ACTIVITIES SCHEDULED TO BE PERFORMED WITHIN TEN (10) FEET OF OVERHEAD UTILITY LINES MUST BE COORDINATED WITH BGE AT LEAST FIVE (5) DAYS IN ADVANCE SO PROPER SAFETY MEASURES CAN BE IMPLEMENTED FOR THE WORK TO BE DONE.
- TEMPORARY PAVING PATCH FOR UTILITY TRENCH REPAIR OF HOT MIX ASPHALT (HMA) PAVED ROADS AND DRIVEWAYS SHALL CONSIST OF 16-INCHES OF DAMPENED AND COMPACTED NO. 57 AGGREGATE SUB-BASE OVERLAYED WITH 2-INCHES OF HMA BASE COURSE PLACED FLUSH WITH THE ADJOINING PAVEMENT SURFACE. REFILL ALL DEPRESSIONS AND SETTLEMENT (AS THEY DEVELOP) WITH THE SPECIFIED MATERIALS. PRIOR TO RECOMPACT, AND TACK COAT THE REMAINING 12-INCH MINIMUM NO. 57 AGGREGATE SUB-BASE, AND REPAVE THE UTILITY TRENCH (AND WHERE REQUIRED, THE REMAINING PORTION OF THE TRAVEL LANE) ALL IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL G-4.01. THE HMA MATERIALS SHALL MEET THE TYPICAL SUPERPAVE MIX SPECIFIED IN HOWARD COUNTY STANDARD DETAIL R-2.01, PG 64-22S, LEVEL 1 (ESAL).
- FINAL PAVEMENT REPAIR SHALL CONFORM TO COUNTY STANDARD DETAIL R-2.01, SECTION P-4.
- THE CONTRACTOR SHALL PROVIDE SURVEY CONSTRUCTION STAKEOUT/MARK-OUT FOR ALL NECESSARY LINES, GRADES AND ELEVATIONS OF THE PROPOSED FACILITIES.
- THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC MEASURES, AS SHOWN ON THE PLANS, TO MAINTAIN ONE-LANE OF ALTERNATING TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. DURING THE INITIAL STAKEOUT/MARK-OUT OF THE NEW SEWER ALIGNMENT, SHOULD IT BE DETERMINED THAT THE PROJECT (OR A PORTION OF THE PROJECT) CANNOT BE INSTALLED WITHOUT SHUTTING DOWN THE ENTIRE ROADWAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY SO PROPER MEASURES CAN BE PLANNED TO PROVIDE TRAFFIC DETOURING TO FACILITATE PROJECT CONSTRUCTION.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) LIMITS. THE PUBLIC ROW ALSO SHALL SERVE AS THE LIMITS OF DISTURBANCE FOR CONSTRUCTION ACTIVITIES ALONG THE LENGTH OF THE PROPOSED WORK ASSOCIATED WITH THIS PROJECT.
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED EXCEPT AT A SITE LOCATION SECURED BY THE CONTRACTOR IN ADVANCE OF COMMENCING WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF DUST, MUD, AND DEBRIS ON THE ROADWAYS AS A RESULT OF PROJECT CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING/REPLACING ANY EXISTING GUARDRAILS, GATES, FENCES, STEEL POSTS, PAVING, ROADSIDE LANDSCAPING, SIGNAGE, MAILBOXES, ETC. REMOVED DURING CONSTRUCTION.
- ALL EXCAVATIONS MUST BE FILLED AND/OR PLATED AT THE END OF EACH WORKDAY.



TRAVERSE CONTROL POINTS			
ID	NORTHING	EASTING	ELEV.
106	597860.99	1368586.63	395.55
107	598055.35	1369110.61	358.75
GB3	598187.46	1369355.92	352.41

SOIL BORING SCHEDULE			
ID	SURFACE ELEVATION	NORTHING	EASTING
SB-1	357.14	598116.70	1369203.45
SB-2	363.52	598023.63	1369019.79
SB-3	374.06	597959.50	1368889.10
SB-4	377.58	597940.09	1368837.23
SB-5	384.28	597907.54	1368719.14

MANHOLE COORDINATE TABLE		
ID	NORTHING	EASTING
NEW MH 1	598122.54	1369209.30
NEW MH 2	598036.95	1369040.79
NEW MH 3	597962.16	1368889.67
NEW MH 4	597938.86	1368825.56
NEW MH 5	597911.21	1368726.34



**AS-BUILT**  
4-19-21

**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

Director of Public Works: *Thomas Bull* 11/17/2020  
 Chief, Bureau of Engineering: *Thomas Bull* 11/13/20  
 Chief, Bureau of Utilities: *Thomas Bull* 11/13/2020  
 Chief, Utility Design Division: *SRK* 11/13/20 DATE

**G O BRIEN & GERE**  
4201 MITCHELLVILLE ROAD  
SUITE 500  
BOWIE, MD 20716  
PHONE: 301-731-5622

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 55452, EXPIRATION DATE 12/23/21.

Professional Engineer: *Joseph P. Conroy* 55452

DSN. BY: JPC  
 DRN. BY: BNL  
 CHK. BY: HAM  
 DATE: 10/2020

BY: JPC  
 NO. **AS-BUILT**  
 REVISION  
 DATE: 4/21

**OLD FREDERICK ROAD PROPOSED SEWER PLAN AND PROFILE**

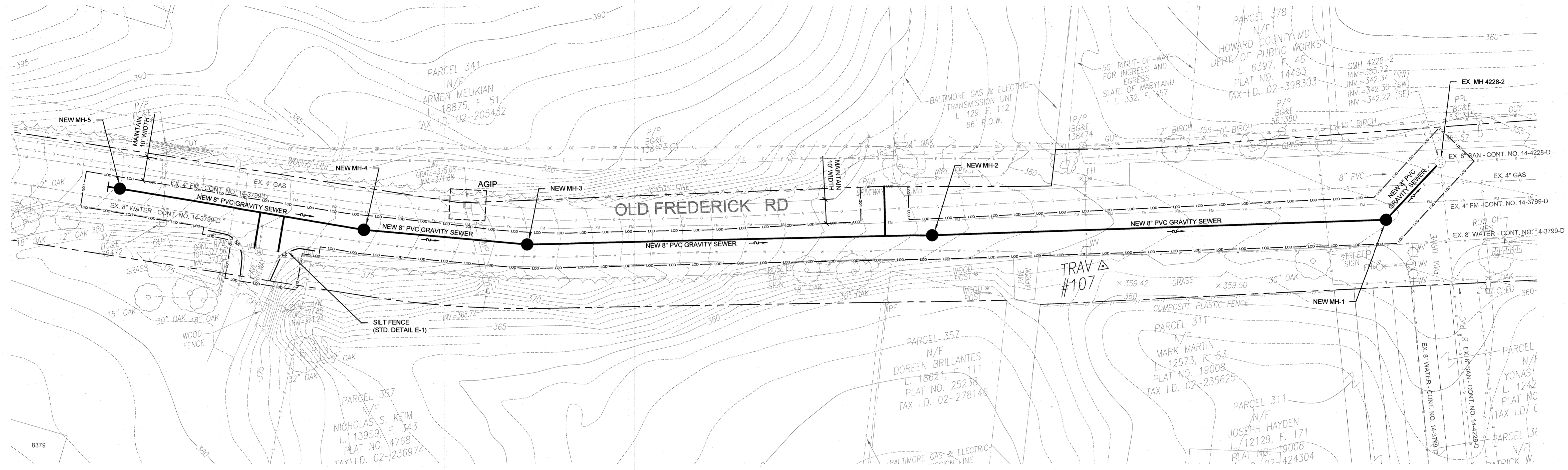
600' SCALE MAP NO. 18 BLOCK NO. 2

**OLD FREDERICK ROAD SEWER EXTENSION**

CAPITAL PROJECT: S6699  
 CONTRACT NO.: 10-5150  
 ELECTION DISTRICT: 2  
 HOWARD COUNTY, MARYLAND

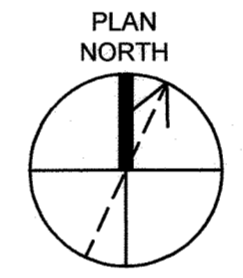
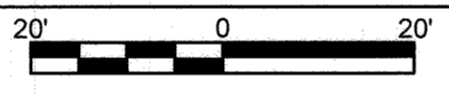
SCALE AS SHOWN  
 SHEET 3 OF 6  
 FILE NO. 51204-





**EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1"=20'



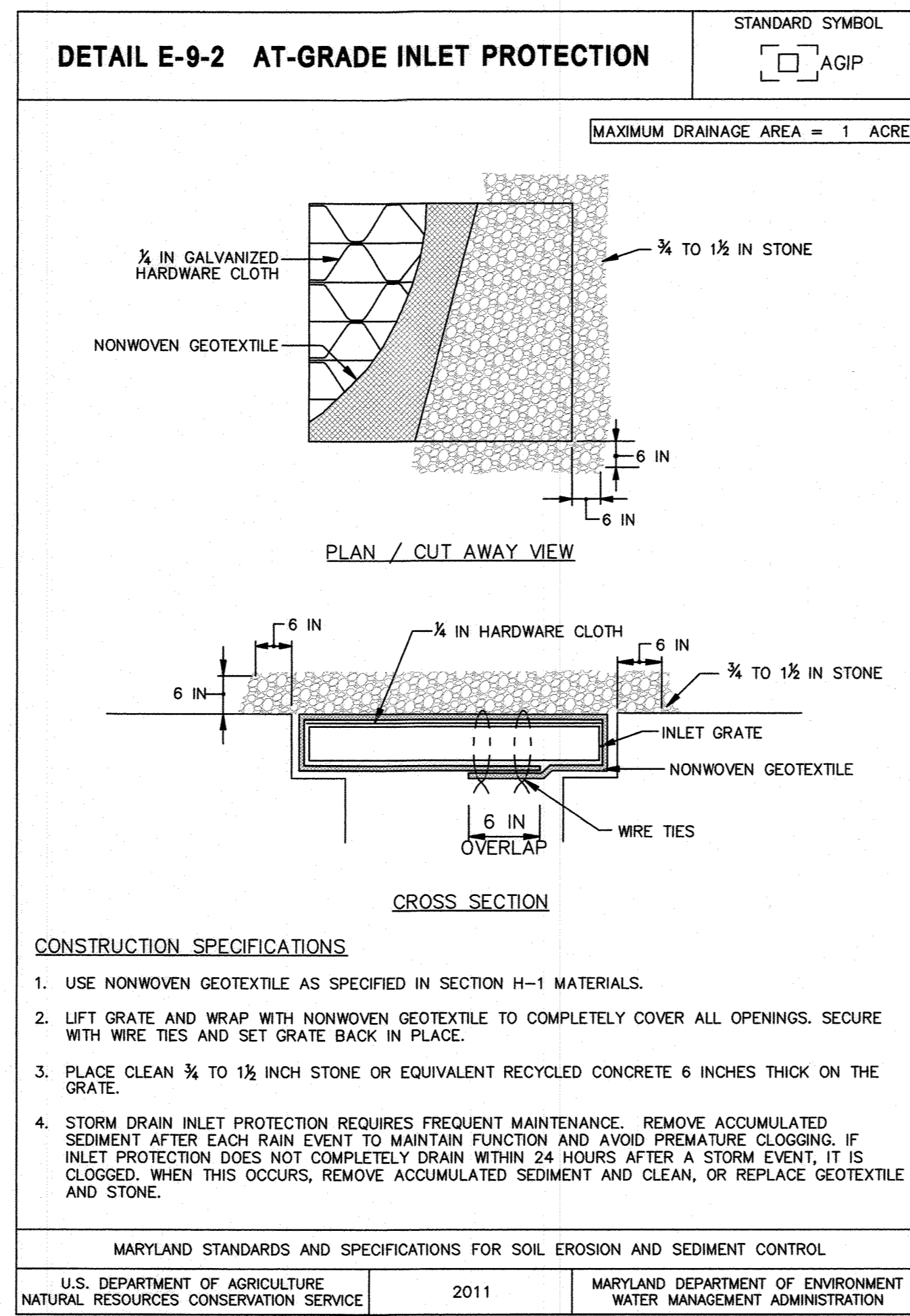
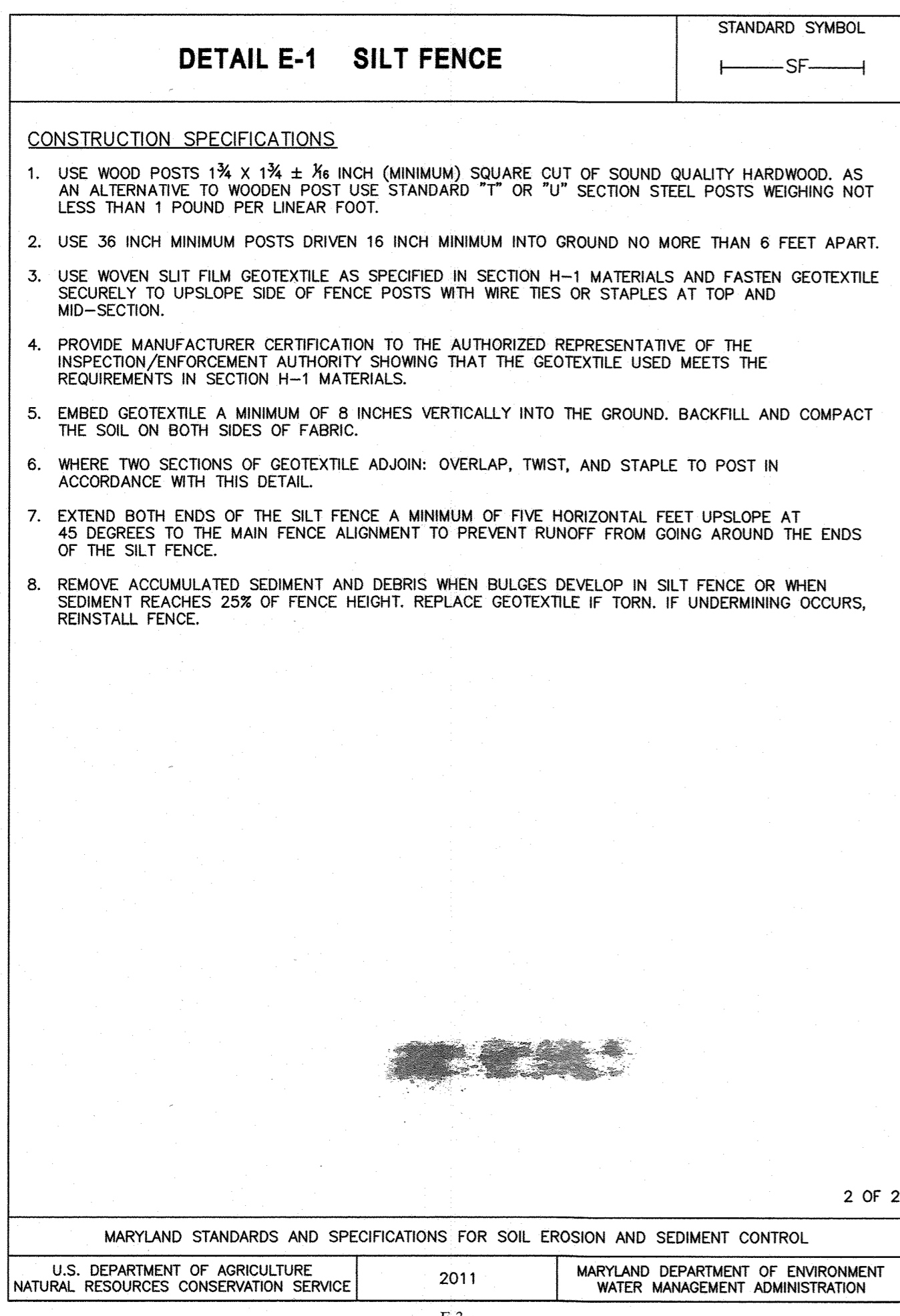
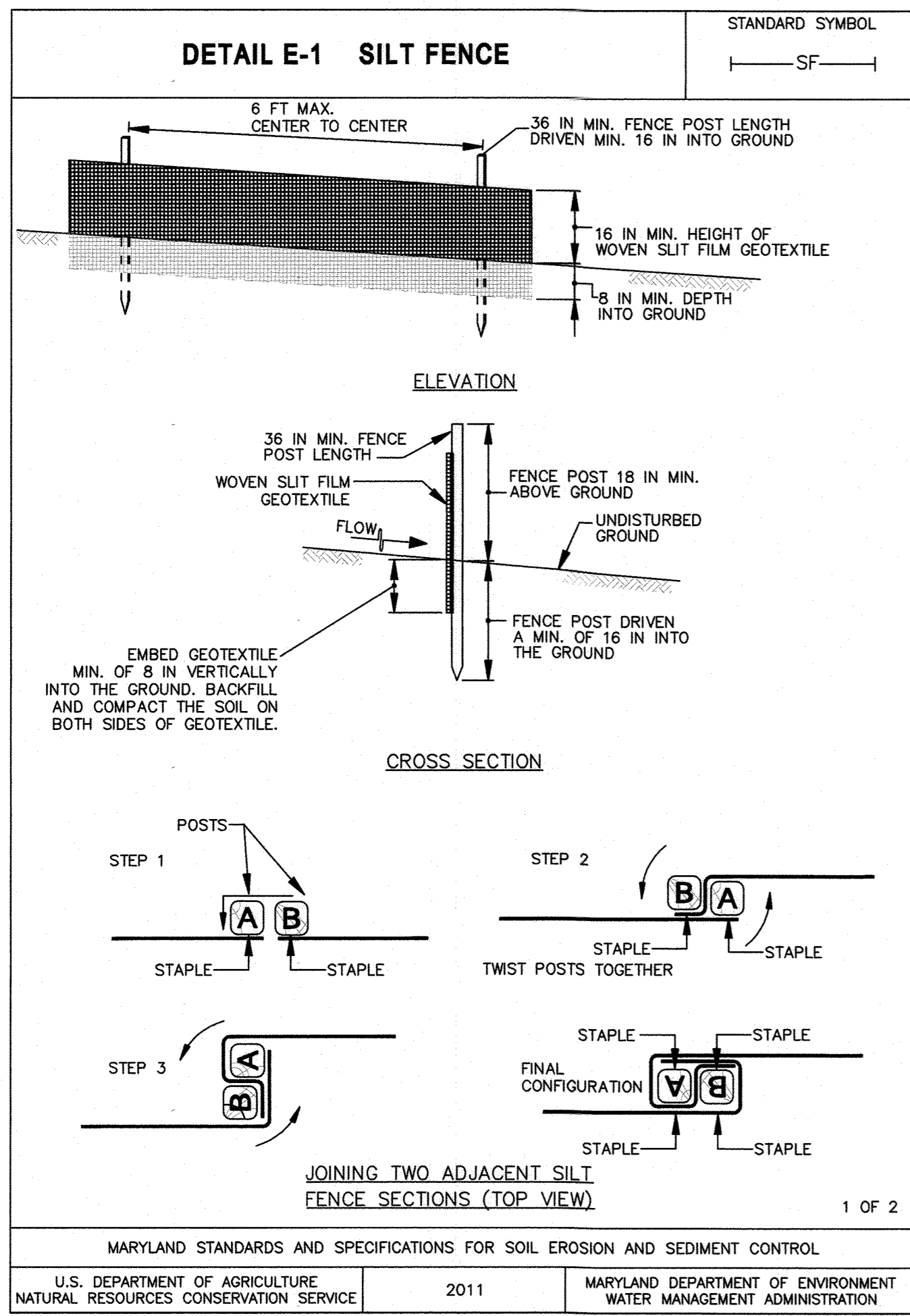
**LEGEND**

- LIMIT OF DISTURBANCE
- SILT FENCE
- AT GRADE INLET PROTECTION

**AS-BUILT**  
4-19-21

<p><b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> 11/13/2020 DIRECTOR OF PUBLIC WORKS DATE</p> <p><i>[Signature]</i> 11/13/2020 CHIEF, BUREAU OF UTILITIES DATE</p>	<p><b>G O BRIEN &amp; GERE</b></p> <p>4201 MITCHELLVILLE ROAD SUITE 500 BOWIE, MD 20716 PHONE: 301-731-5622</p>	<p>PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 55452, EXPIRATION DATE 12/23/21.</p> <p><i>[Signature]</i> PROFESSIONAL ENGINEER</p>	<p>DSN. BY: JPC</p> <p>DRN. BY: BNL</p> <p>CHK. BY: HAM</p> <p>DATE: 10/2020</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">JPC</td> <td style="width: 5%;">BY</td> <td style="width: 5%;">NO.</td> <td style="width: 5%;">AS-BUILT</td> <td style="width: 5%;">REVISION</td> <td style="width: 5%;">DATE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	JPC	BY	NO.	AS-BUILT	REVISION	DATE							<p><b>EROSION &amp; SEDIMENT CONTROL PLAN</b></p>	<p><b>OLD FREDERICK ROAD SEWER EXTENSION</b></p> <p>CAPITAL PROJECT: S6699 CONTRACT NO.: 10-5150 ELECTION DISTRICT: 2 HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 4 OF 6</p>
JPC	BY	NO.	AS-BUILT	REVISION	DATE														





**HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES**

- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
  - PRIOR TO THE START OF EARTH DISTURBANCE.
  - UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
  - PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.
- OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3); TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
- 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 CID.
  - SITE ANALYSIS:
    - TOTAL AREA OF SITE: 0.13 ACRES / 6,182 SF
    - AREA DISTURBED: 0.13 ACRES / 6,182 SF
    - AREA TO BE ROOFED OR PAVED: 0.13 ACRES / 6,182 SF, REPAVED
    - AREA TO BE VEGETATIVELY STABILIZED: 0.00 ACRES
    - TOTAL CUT: N/A CU. YDS.
    - TOTAL FILL: N/A CU. YDS.
    - OFFSITE WASTE/BORROW AREA LOCATION: TBD, IF NEEDED
  - 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 CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
    - INSPECTION DATE
    - INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
    - NAME AND TITLE OF INSPECTOR
    - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
    - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
    - EVIDENCE OF SEDIMENT DISCHARGES
    - IDENTIFICATION OF PLAN DEFICIENCIES
    - IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
    - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
    - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
    - PHOTOGRAPHS
    - MONITORING/SAMPLING
    - MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
    - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
  - TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
  - ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
  - DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
  - WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.
  - TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.
  - ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UP HILL BY 2' IN ELEVATION.
  - STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):
    - USE I AND IP MARCH 1 - JUNE 15
    - USE III AND IIIIP OCTOBER 1 - APRIL 30
    - USE IV MARCH 1 - MAY 31
  - A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

**AS-BUILT**  
4-19-21

**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

*[Signature]* 11/17/2020  
DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 11/13/2020  
CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 11/13/2020  
CHIEF, BUREAU OF ENGINEERING DATE

*[Signature]* 11/13/2020  
CHIEF, UTILITY DESIGN DIVISION DATE

**G O BRIEN & GERE**

4201 MITCHELLVILLE ROAD  
SUITE 500  
BOWIE, MD 20716  
PHONE: 301-731-5622

PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 55452, EXPIRATION DATE 12/23/21.

*[Signature]*  
JOSEPH P. CONTI  
PROFESSIONAL ENGINEER

DSN. BY:	JPC				
DRN. BY:	BNL				
CHK. BY:	HAM				
DATE:	10/2020	JPC	BY	NO.	AS-BUILT
					4/1
					REVISION
					DATE

**EROSION & SEDIMENT CONTROL NOTES AND DETAILS**

600' SCALE MAP NO. 18 BLOCK NO. 2

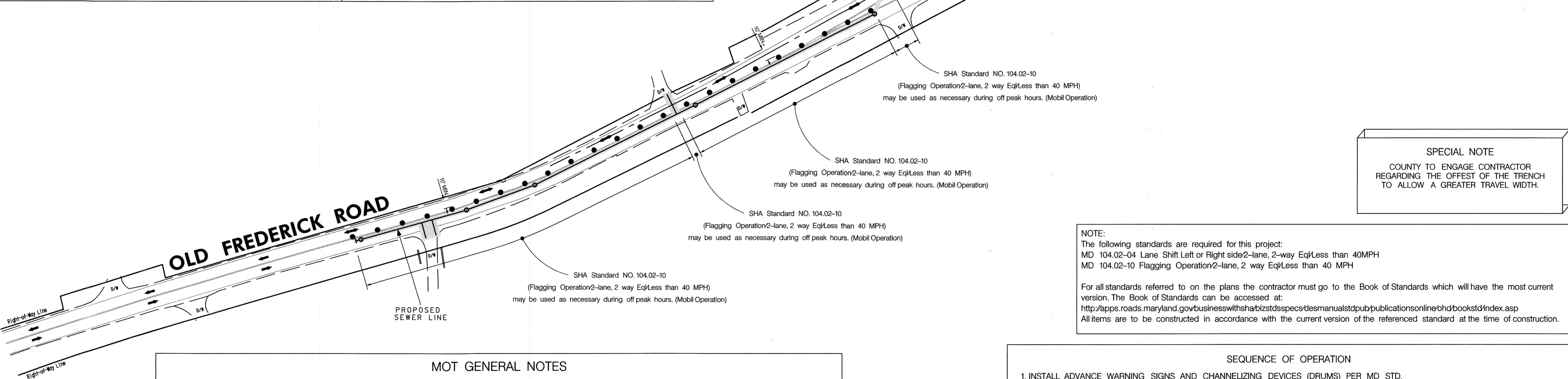
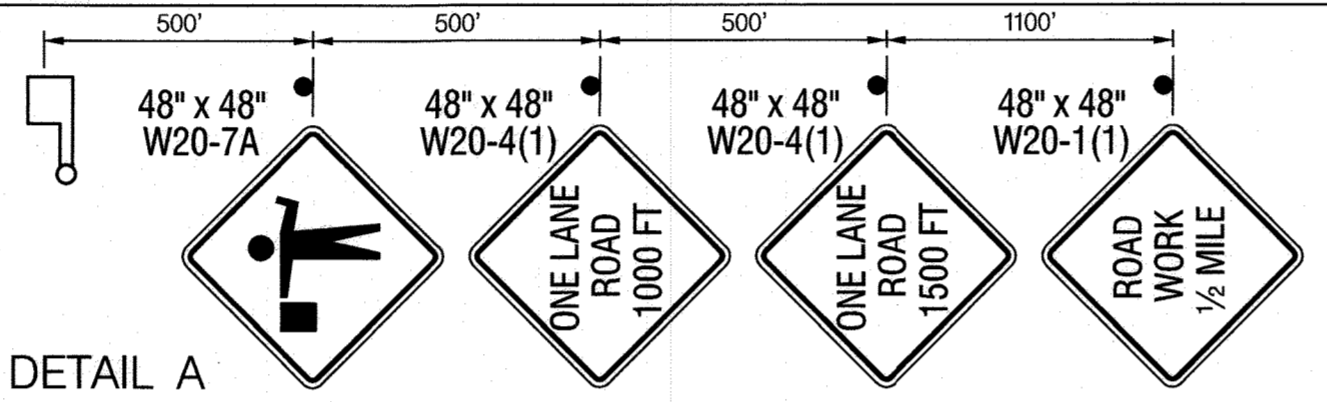
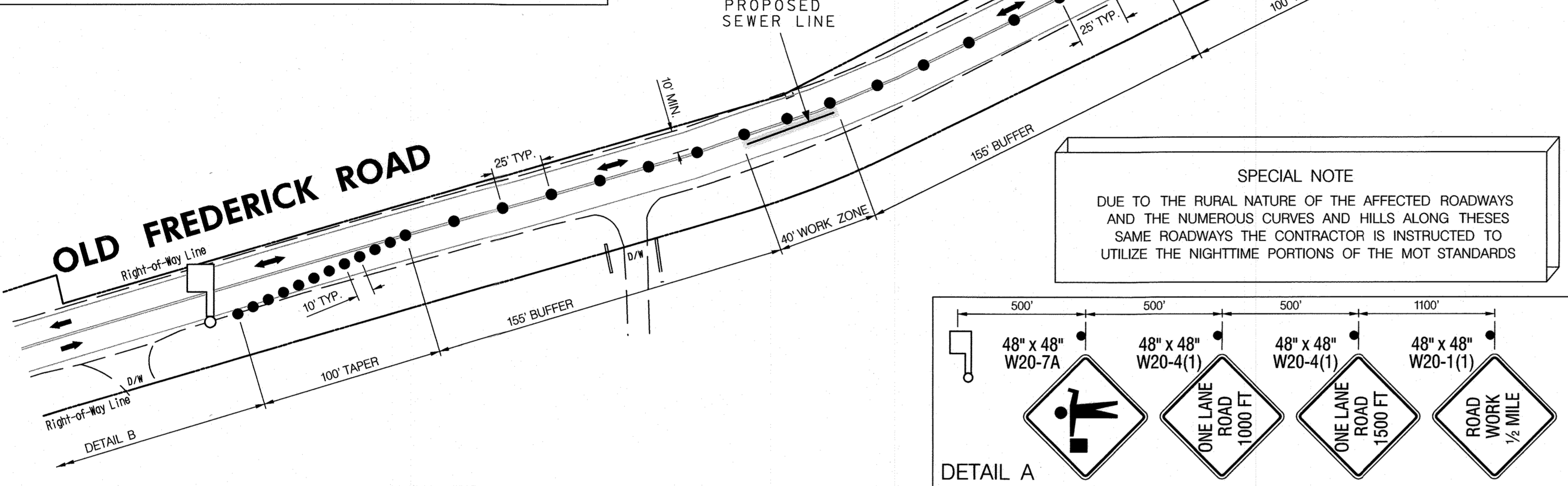
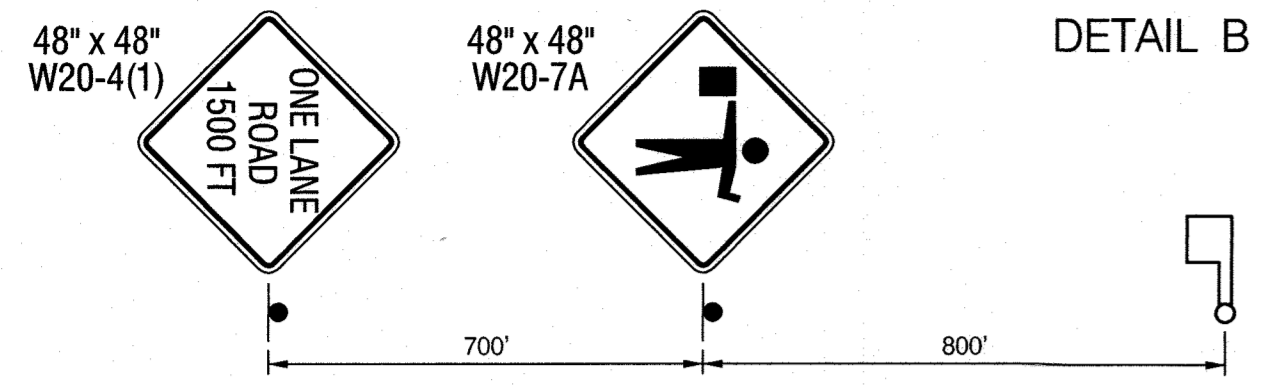
**OLD FREDERICK ROAD SEWER EXTENSION**

CAPITAL PROJECT: S6699  
CONTRACT NO.: 10-5150  
ELECTION DISTRICT: 2  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 5 OF 6  
FILE NO. 51204-



DAILY WORK ZONE DETAIL  
SCALE: 1" = 40'



MOT GENERAL NOTES

1. THE CONTRACTOR SHALL ADHERE TO THE 2011 MDOT SHA MUTCD OR LATEST ADDITION.
2. THE CONTRACTOR SHALL ADHERE TO THE LATEST EDITION OF THE MDOT SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES.
3. PARKING IS TO BE RESTRICTED FOR 72 HOURS.
4. TRAVEL LANES MUST REMAIN AT A MINIMUM 11'-0" WIDTH.
5. LANE CLOSURE HOURS SHALL BE LIMITED TO 9:00AM - 4:00PM.
6. SIGNS NO LONGER REQUIRED OR APPLICABLE SHALL BE REMOVED, COVERED OR TURNED AWAY.
7. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES.
8. ACCESS TO ALL ROADWAYS & DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES.
9. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE WORK ZONE BUFFER PER MD STD. 104.01-81 AND THESE PLANS.
10. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE LANE CLOSURE TAPER PER MD STD. 104.01-80 AND THESE PLANS.
11. THE CONTRACTOR SHALL INSTALL AND REMOVE TRAFFIC CONTROL DEVICES PER MD STD. 104.06-01 THROUGH 104.06-04.
12. THE CONTRACTOR SHALL INSTALL CHANNELIZING DEVICES PER MD STD. 104.01-30B AND 104.01-30D WHILE REFERENCING MD STD. 104.00-09 AND 104.00-10.

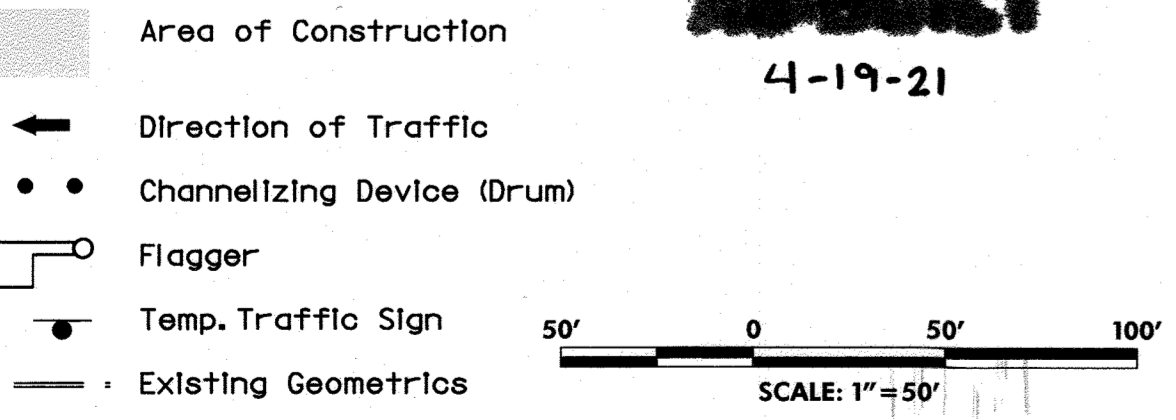
SEQUENCE OF OPERATION

1. INSTALL ADVANCE WARNING SIGNS AND CHANNELIZING DEVICES (DRUMS) PER MD STD.
2. INSTALL DISTRIBUTION LINE USING THE CONSTRUCTION PLANS WITH THE APPLICABLE MOT STD.
3. DRIVEWAYS SHALL REMAIN ACCESSIBLE AT ALL TIMES.
4. AREA OF CONSTRUCTION MUST BE RETURNED TO NORMAL CONDITIONS AT THE END OF THE DAY.

MOT GENERAL NOTES CONT.

13. CONTRACTOR SHALL CONSULT THE MD-SHA BOOK OF STANDARDS FOR THE CURRENT TYPICALS AND NOTES FOR IMPLEMENTING TEMPORARY TRAFFIC CONTROL PLANS DETAIL TRAFFIC CONTROL FOR PEAK-HOUR HOUR MOVEMENTS EXCEPT WHERE NOTED. UTILIZE TYPICALS AS NOTED FOR NON-PEAK HOUR WORK ZONES AS NECESSARY.
14. CONTRACTOR SHALL RESTORE CONSTRUCTION AREA BACK TO EXISTING GRADE AT THE END OF THE WORK DAY.
15. ALL DRIVEWAYS SHALL REMAIN OPEN AND UNOBSTRUCTED BY ANY CHANNELIZING DEVICES DURING PERIODS OF NON-CONSTRUCTION.
16. ADVANCE WARNING DEVICES, STANDARD DETAILS, TAPERS AND BUFFERS TO BE SET RELATIVE TO PREVAILING SPEEDS OR 85%: 25 MPH FOR OLD FREDERICK ROAD.
17. CONTRACTOR SHALL INFORM PRIVATE PROPERTY OWNERS IMPACTED BY ROAD CONSTRUCTION.

KEY



**AS-BUILT**  
4-19-21

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND  
 Director of Public Works: *[Signature]* 11/17/2020  
 Chief - Bureau of Engineering: *[Signature]* 11/13/20  
 Chief - Bureau of Utilities: *[Signature]* 11/13/2020  
 Chief - Utility Design Division: *[Signature]* 11/13/2020

The Traffic Group, Inc.  
 Suite H  
 9900 Franklin Square Drive  
 Baltimore, Maryland 21236  
 410-931-8600  
 1-800-583-8411  
 Fax 410-931-8601  
 "Merging Innovation and Excellence"

PROFESSIONAL CERTIFICATION -  
 I HEREBY CERTIFY THAT  
 THESE PLANS WERE  
 PREPARED OR APPROVED  
 BY ME, AND THAT I AM  
 A DULY LICENSED  
 PROFESSIONAL ENGINEER  
 UNDER THE LAWS OF  
 THE STATE OF MARYLAND.  
 LICENSE NO. 31757  
 EXPIRATION DATE: 6-28-21

DSN. BY: JAD				
DRN. BY: JAD				
CHK. BY: JJD				
DATE: 10/21/20				
BY NO.	REVISION	DATE		
	1	4/21		

MAINTENANCE OF TRAFFIC PLAN

600' SCALE MAP NO. 18	BLOCK NO. 2
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OLD FREDERICK ROAD SEWER EXTENSION

CAPITAL PROJECT: S6699  
 CONTRACT NO.: 10-5150  
 ELECTION DISTRICT NO. 2  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 6 OF 6

F:\2020\2020-08-Old Frederick Sewer Extension\DES\TBD\MDT - Old Frederick Road.dwg Wednesday, 04/21/21